

Legend

- Fine-grained sediment
- Coarse-grained sediment

Highlights the change to --- a river cross sectional area of 3.500 square feet

Notes

Cross-sectional area estimated from 2004 bathymetric data surveyed by Rogers Survey, Inc. for USACE.

Sediment texture was evaluated based on data interpolated by Aqua Survey, Inc. using side-scan sonar images (Aqua Survey, Inc., 2006). Sediment texture data extends from RM0 to RM16.5.

Refer to Figure 1-6 for relationship between river mile and cross-sectional area.

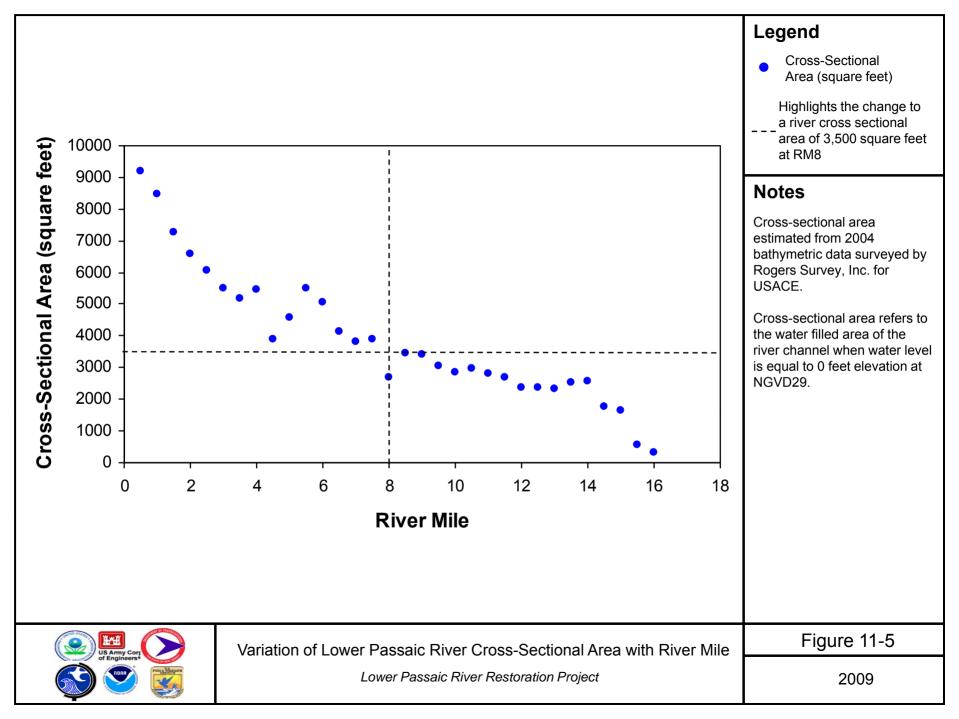


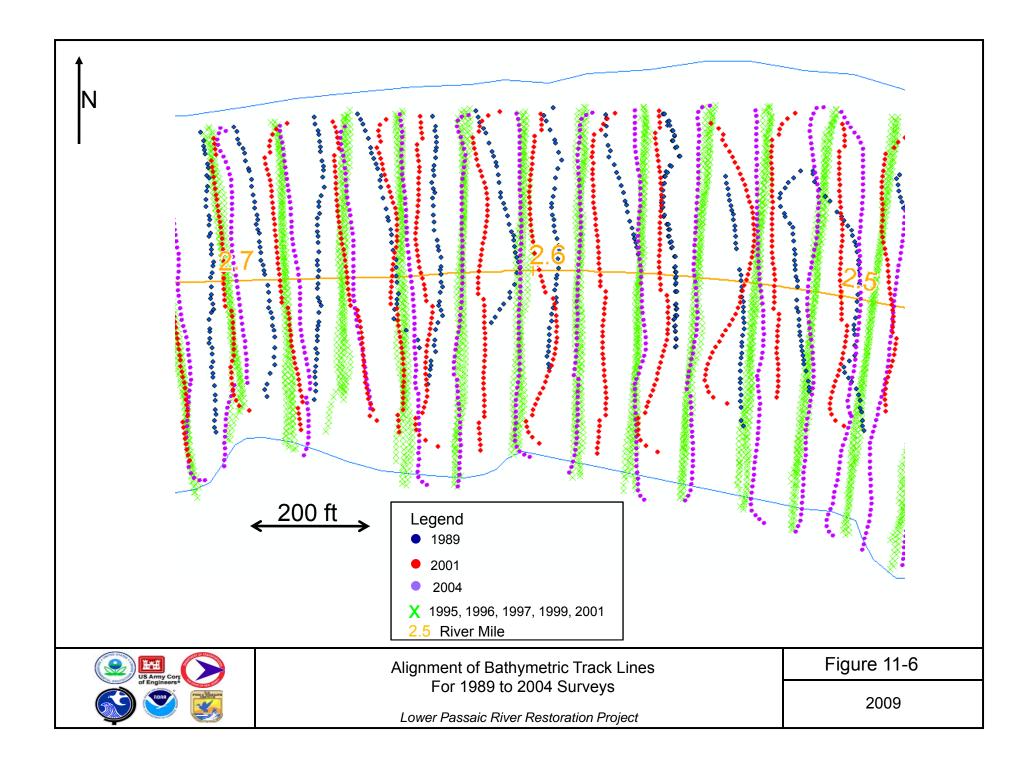
Variation of Lower Passaic River Sediment Type with River Cross-Sectional Area

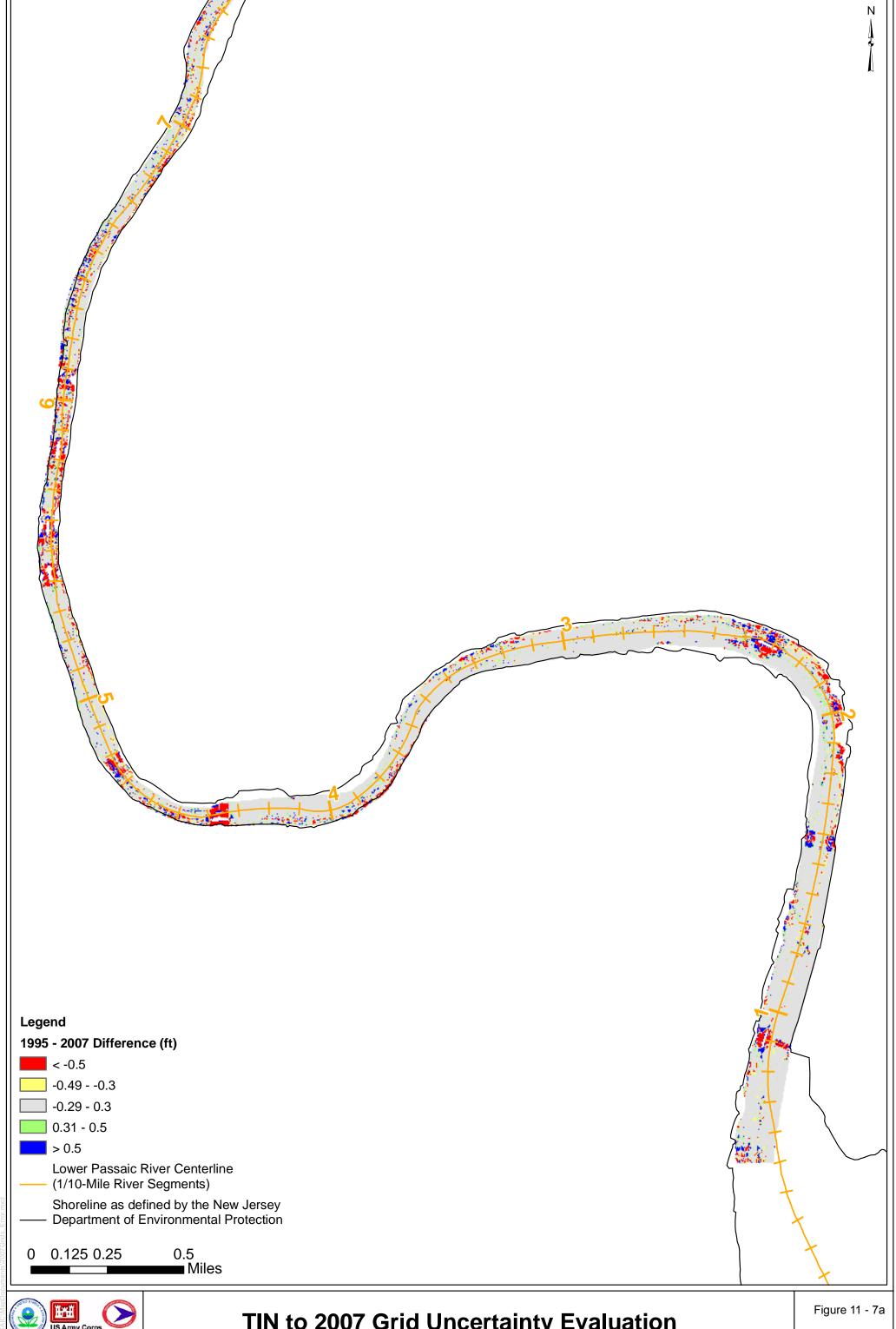
Lower Passaic River Restoration Project

Figure 11-4

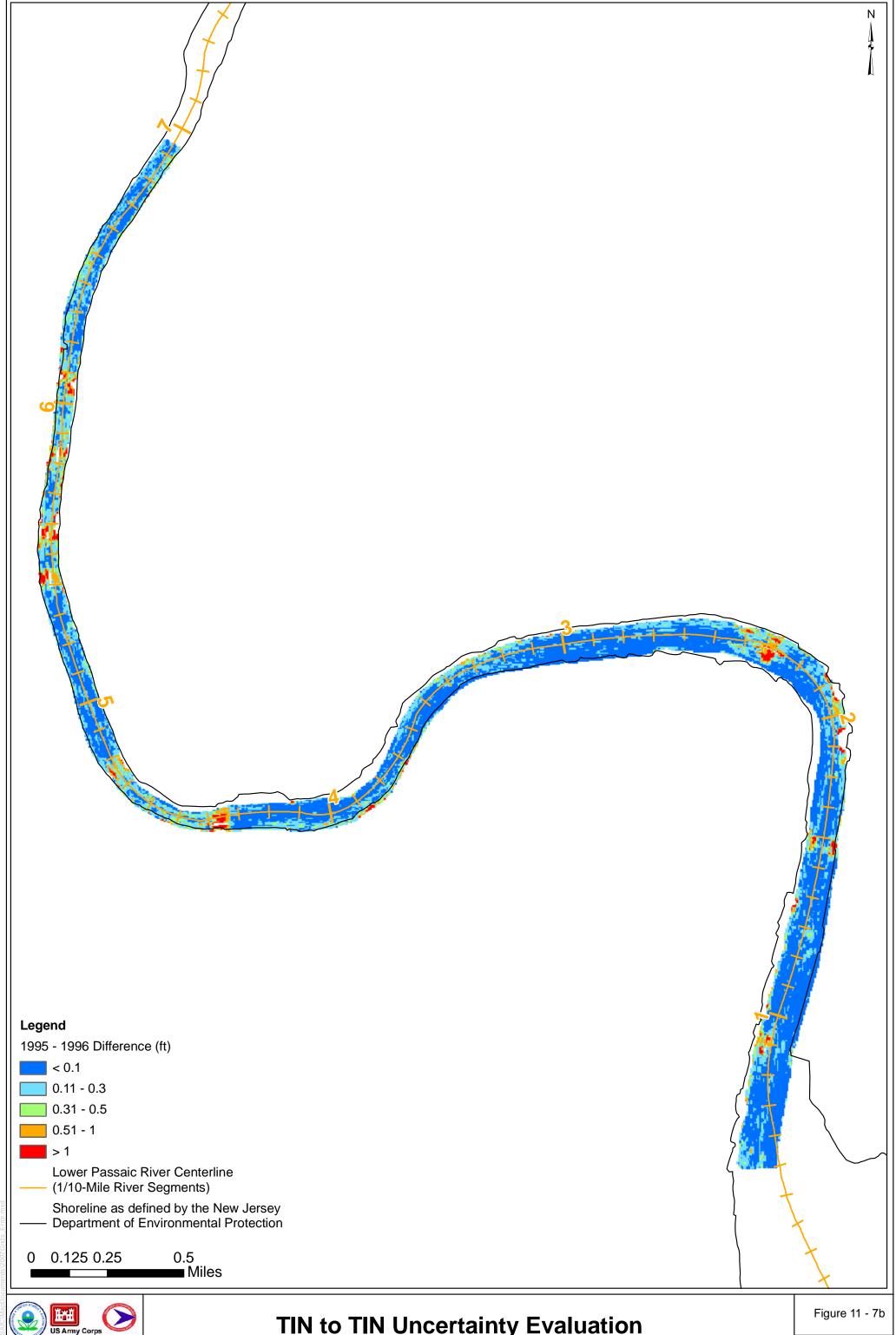
2009



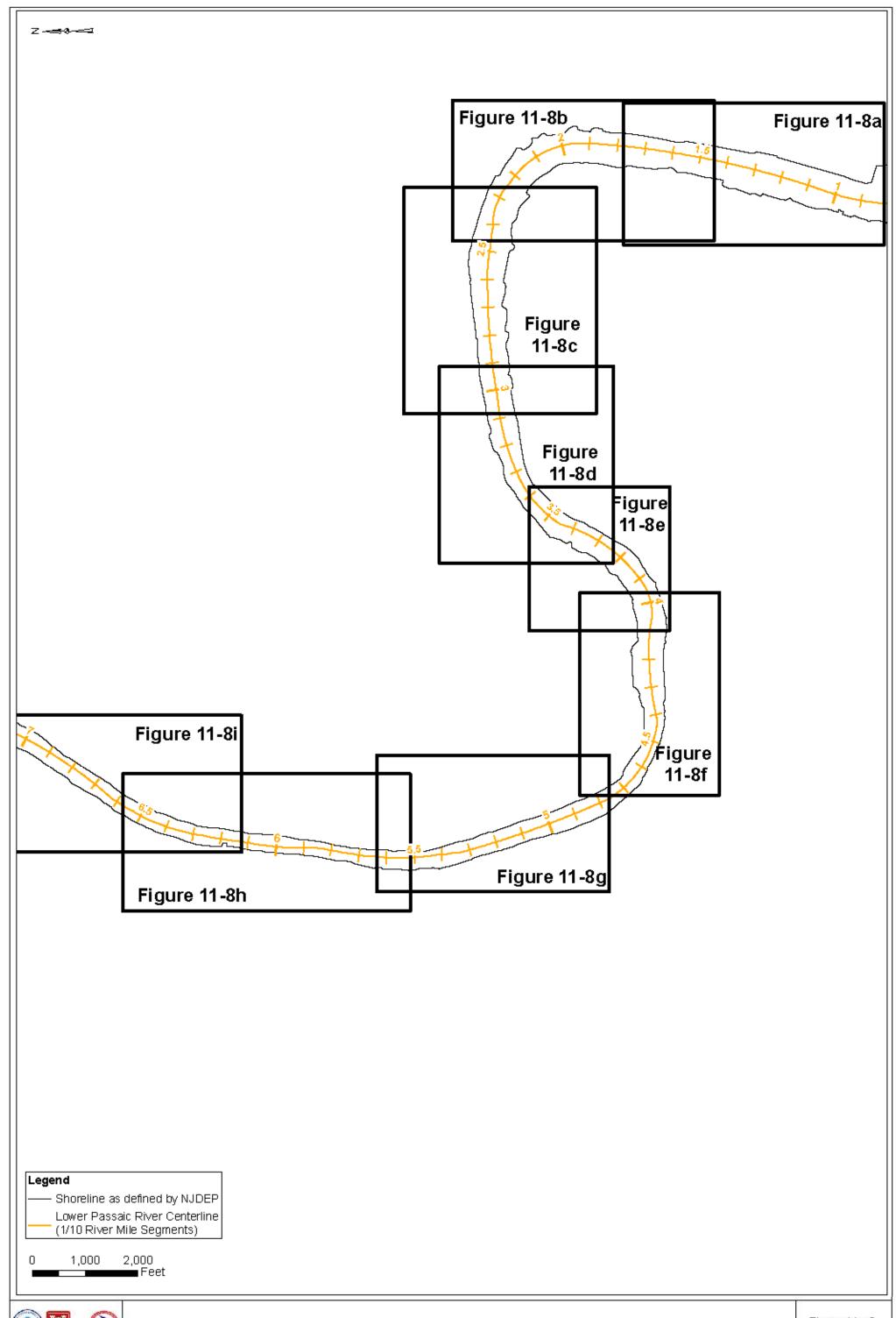




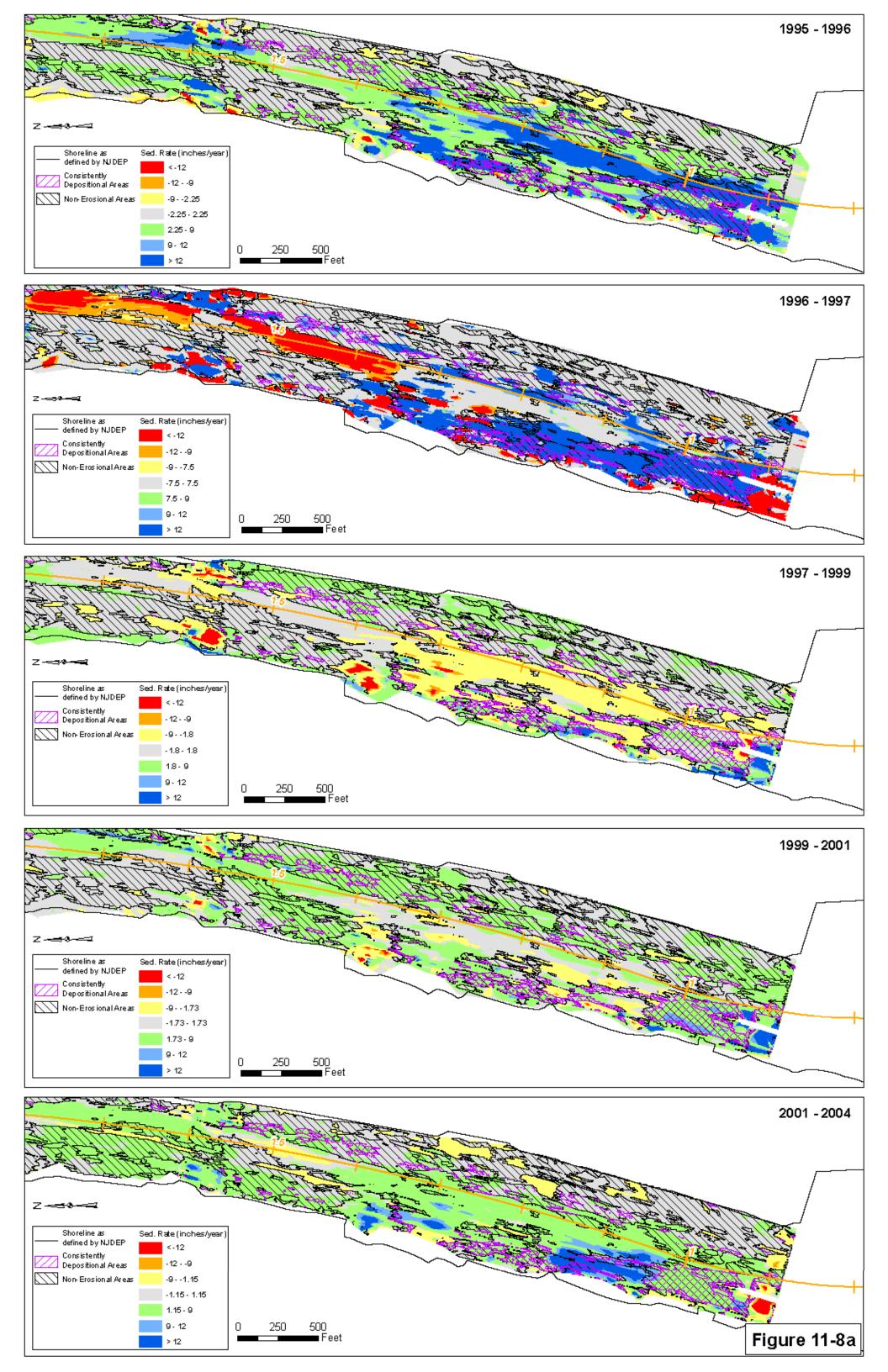


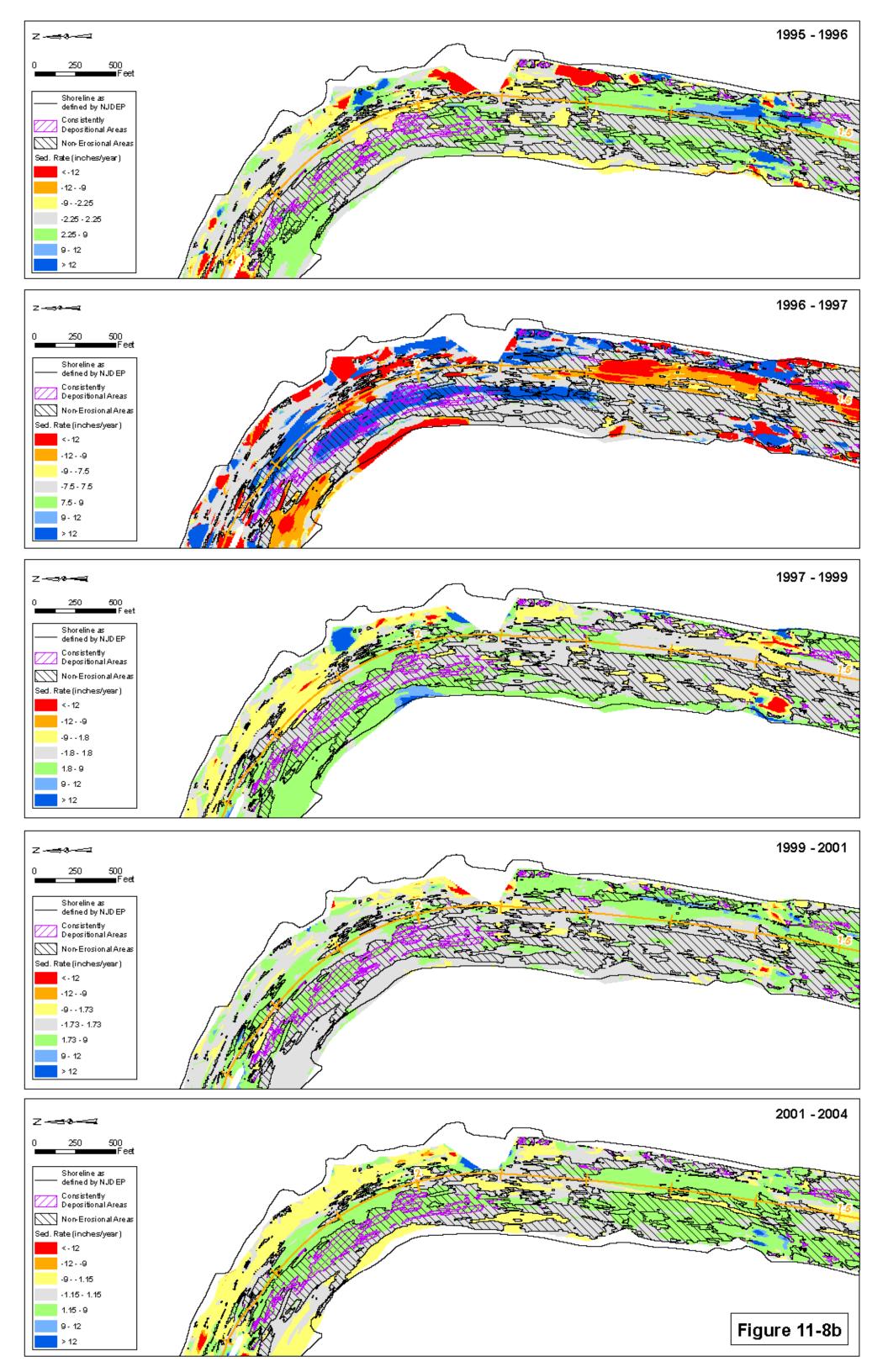


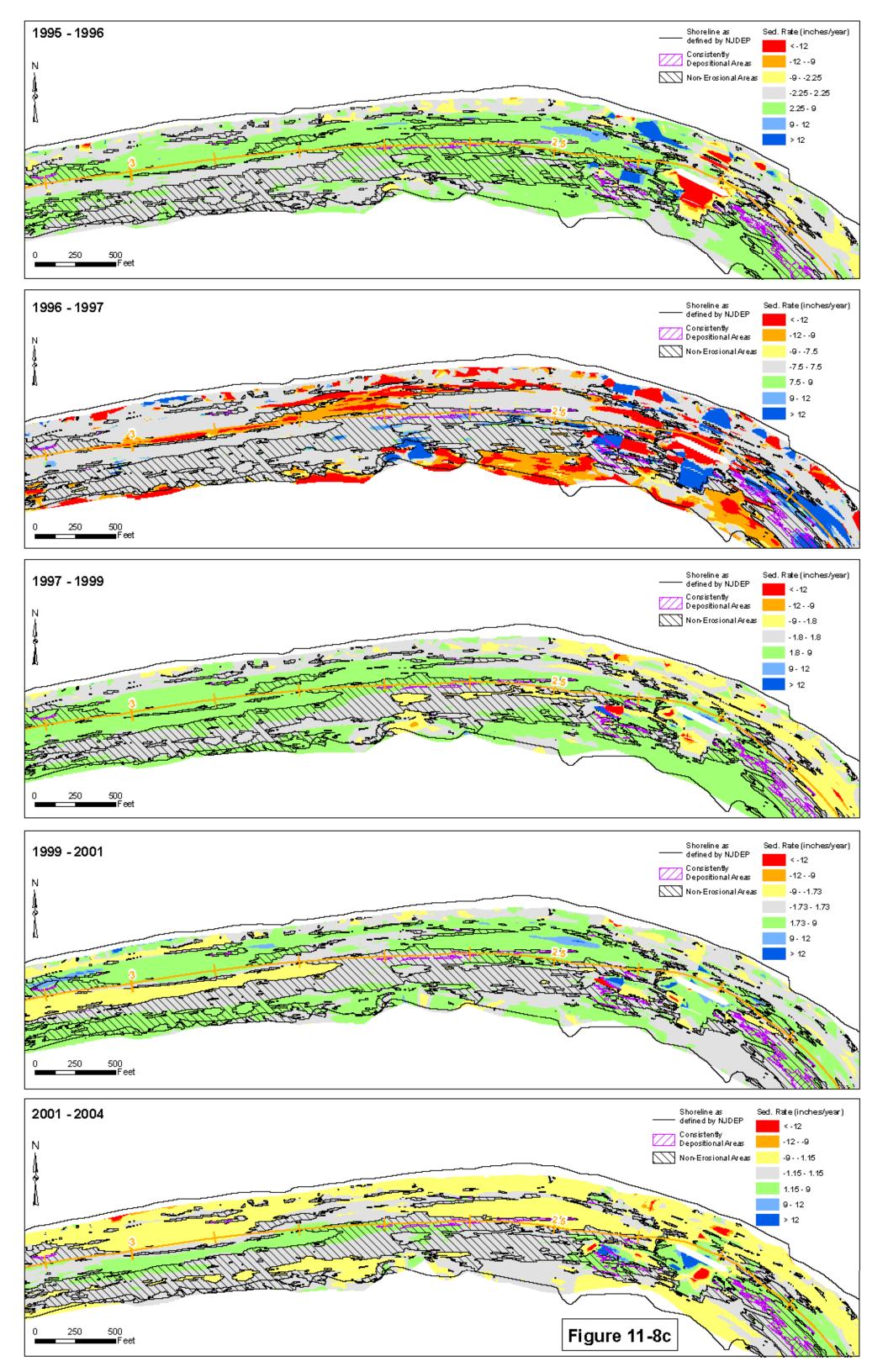


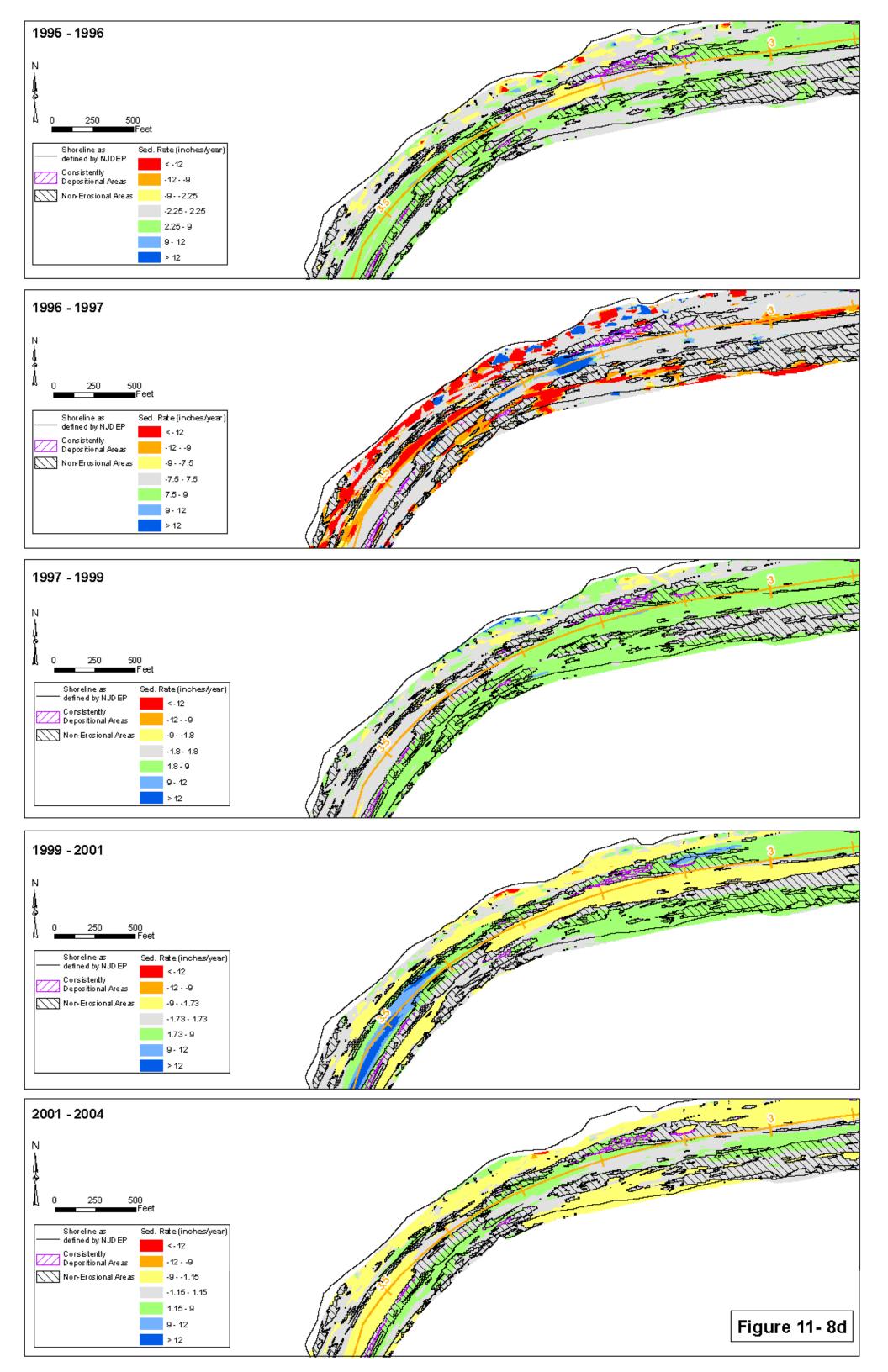


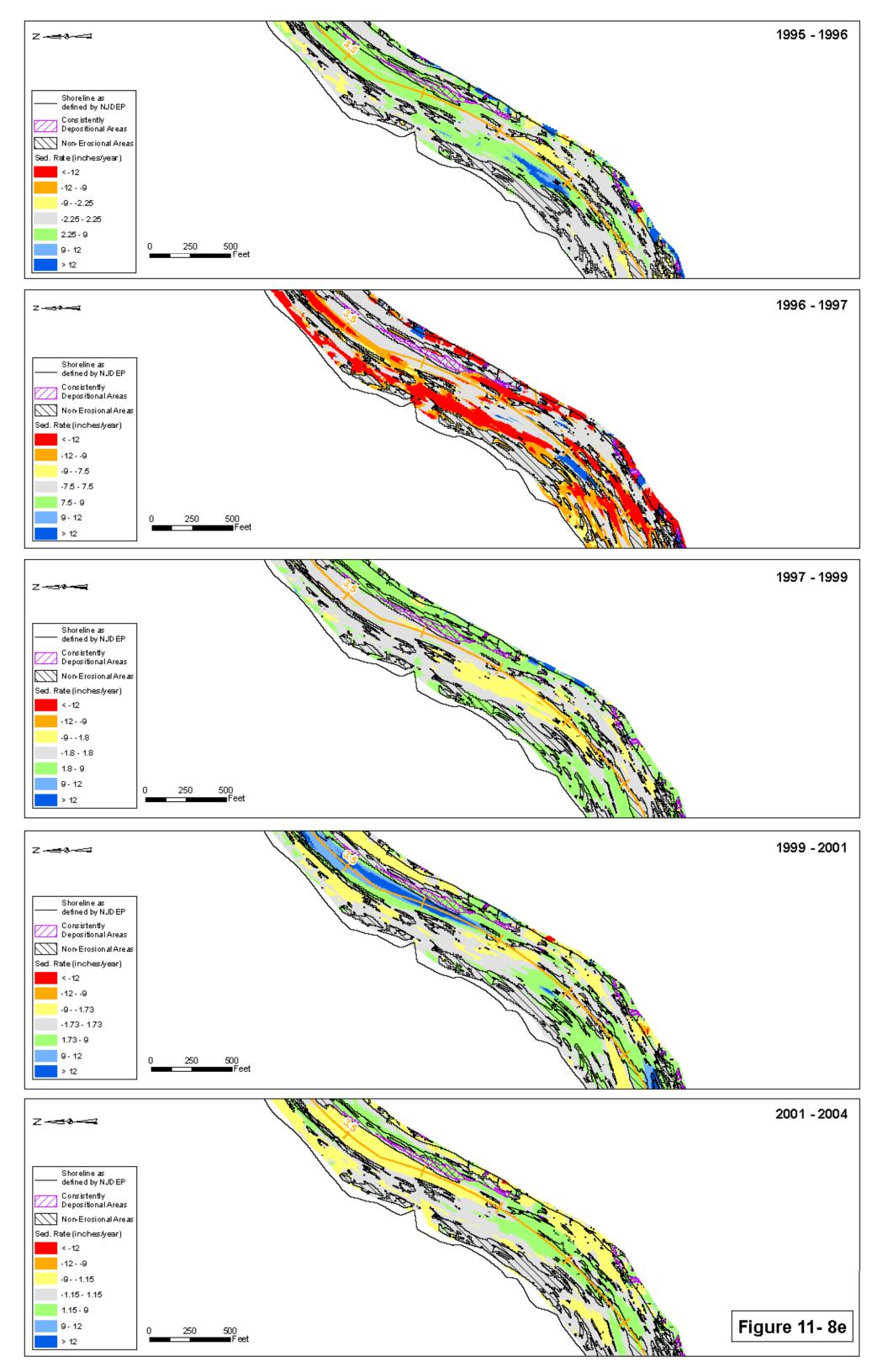


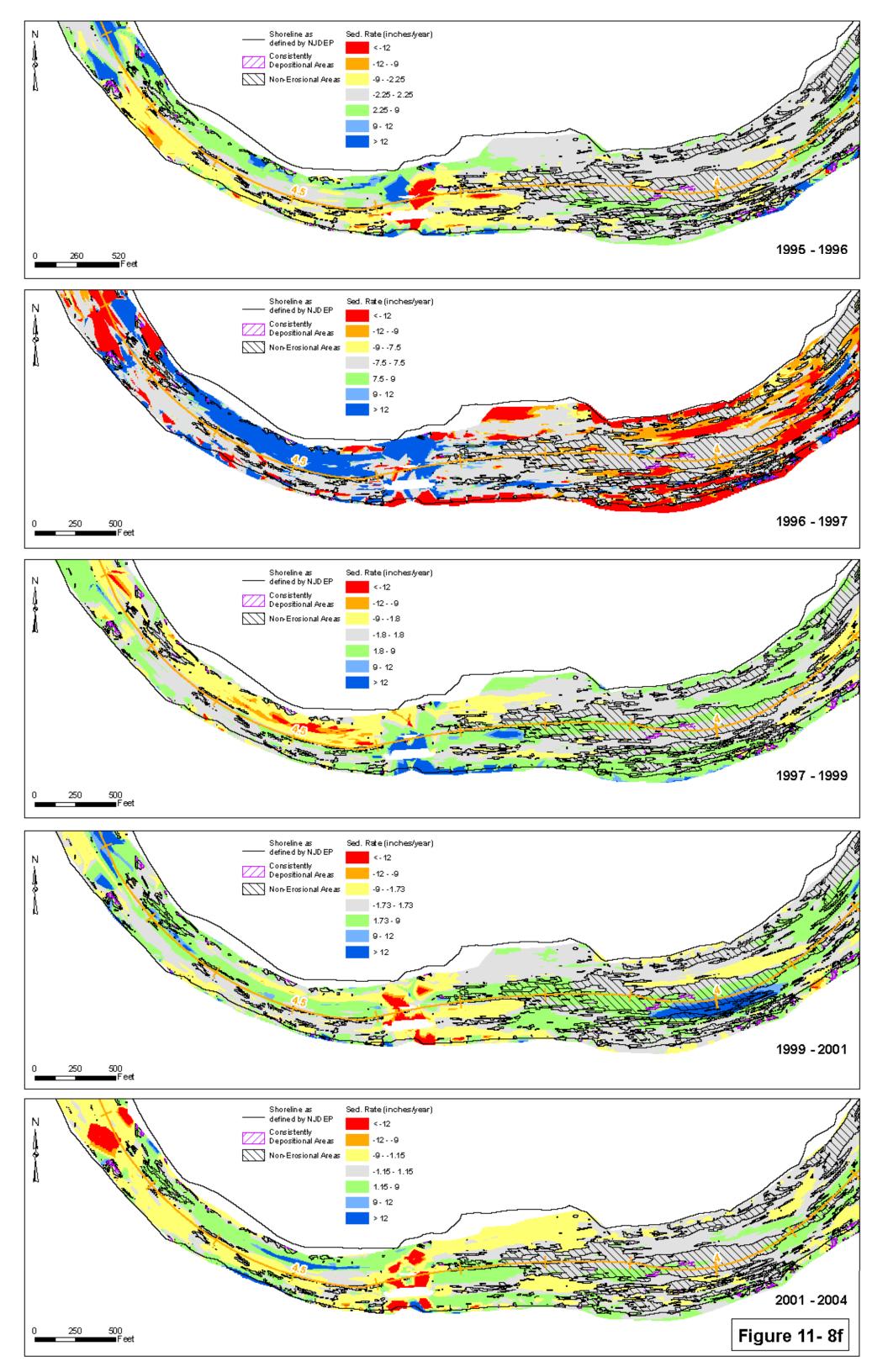


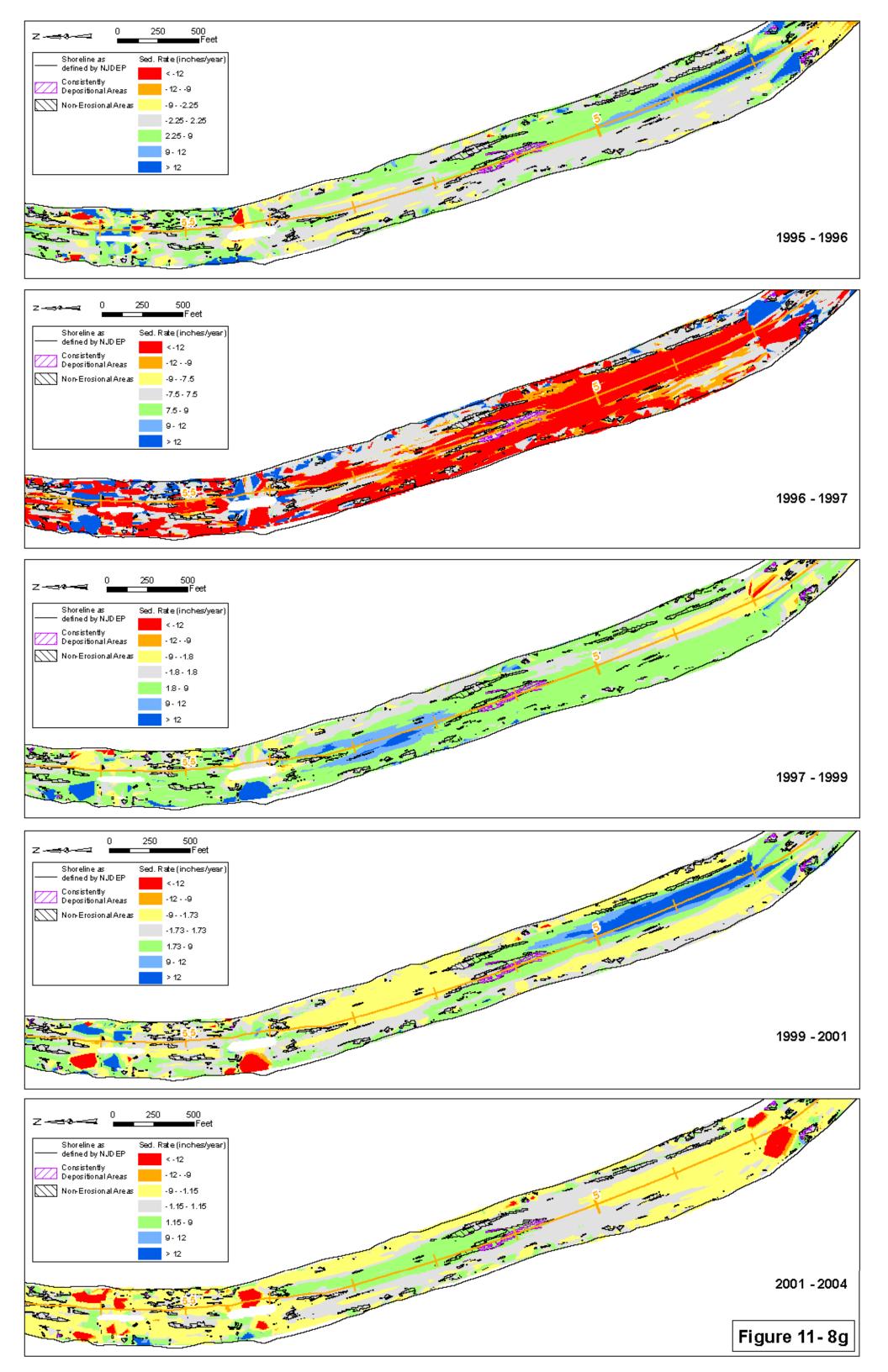


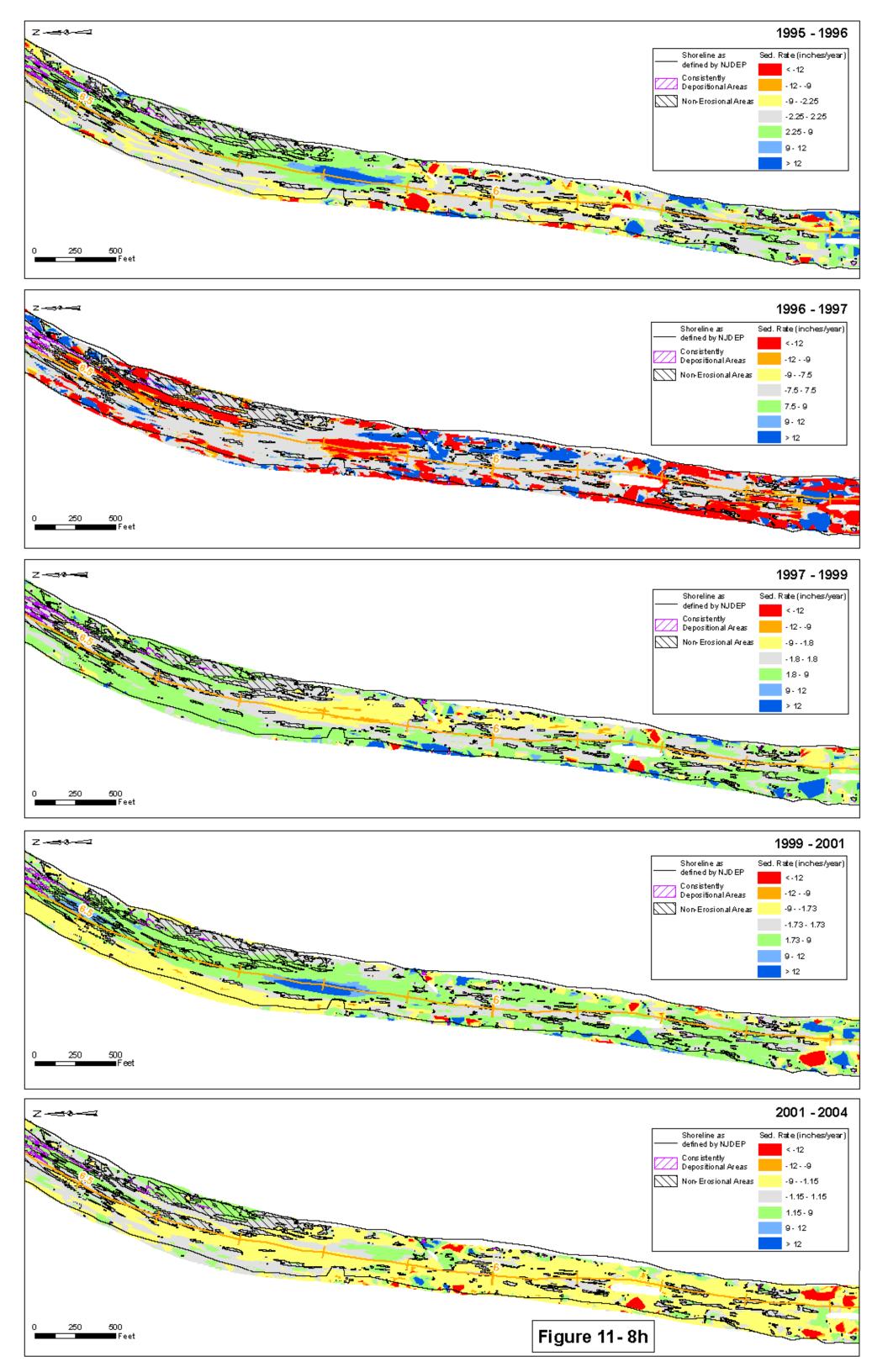


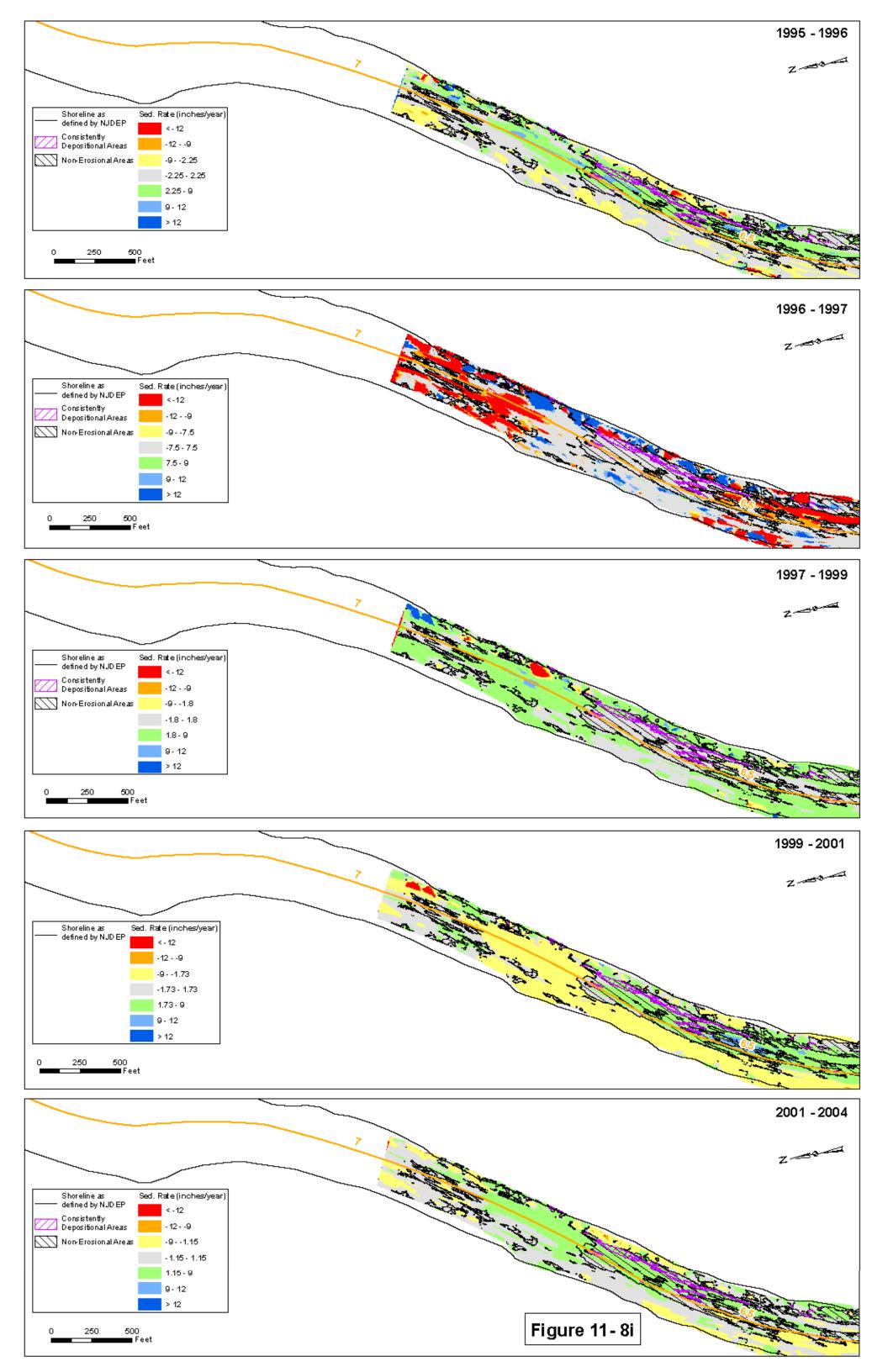


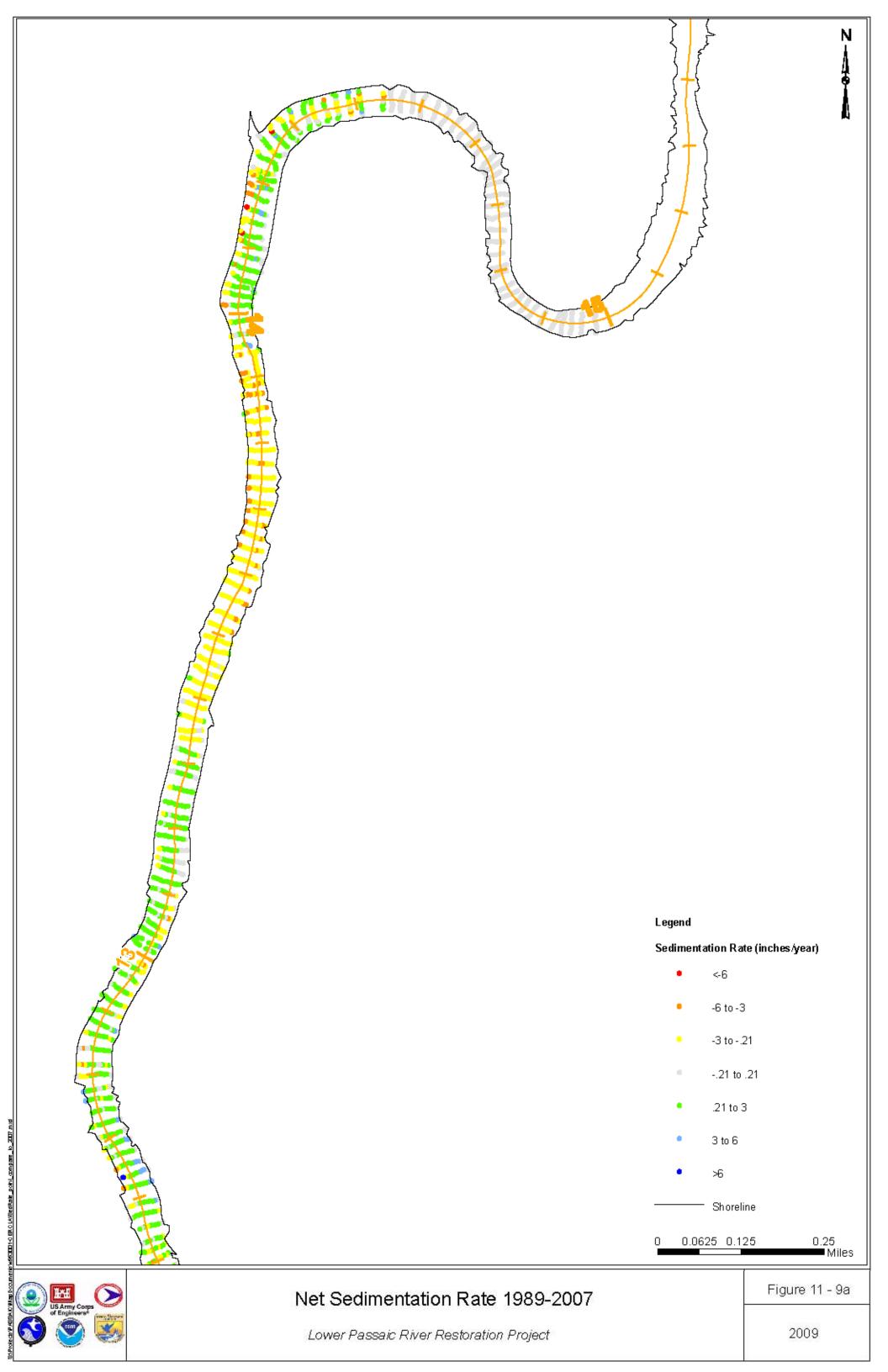


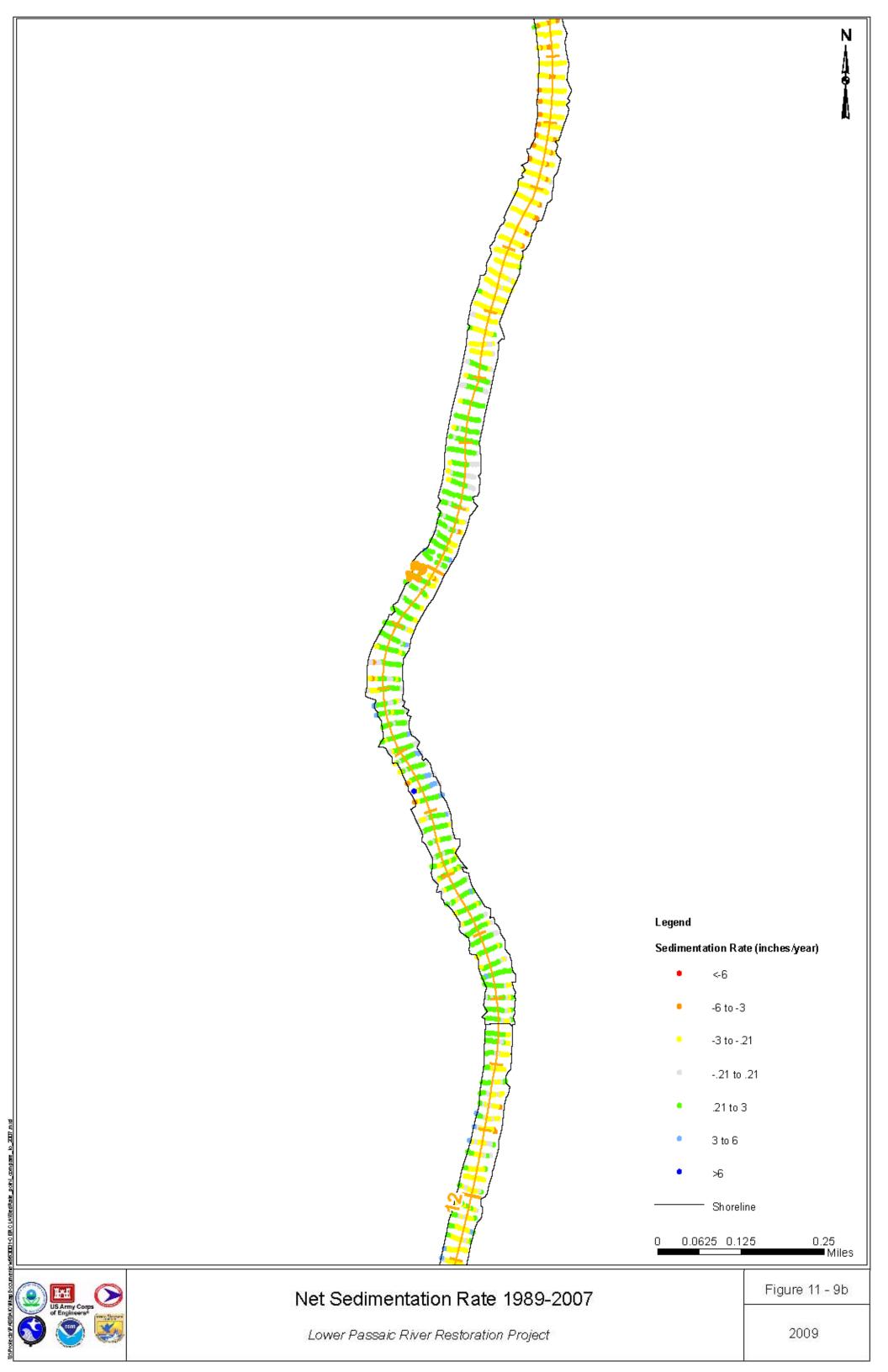


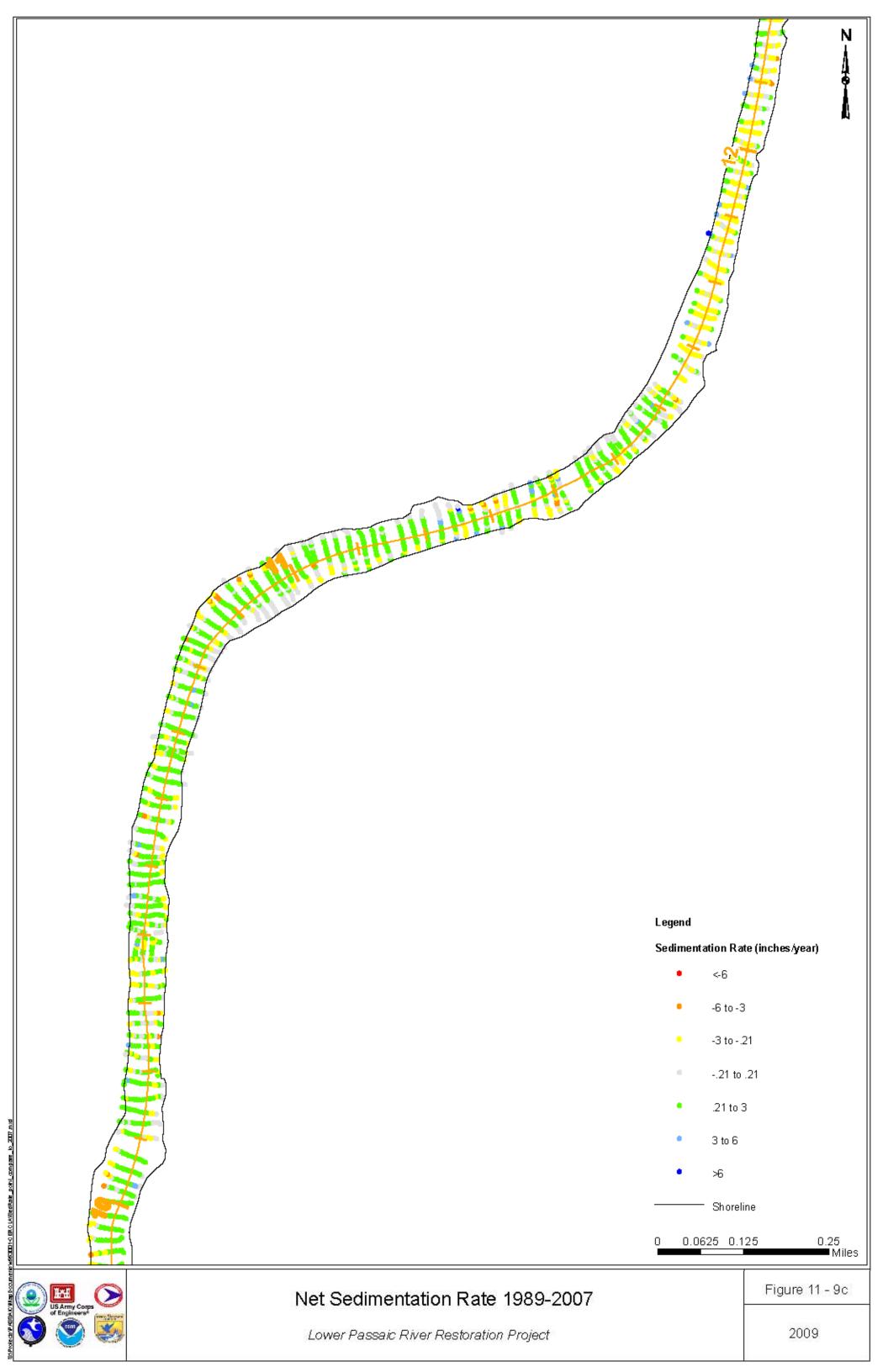


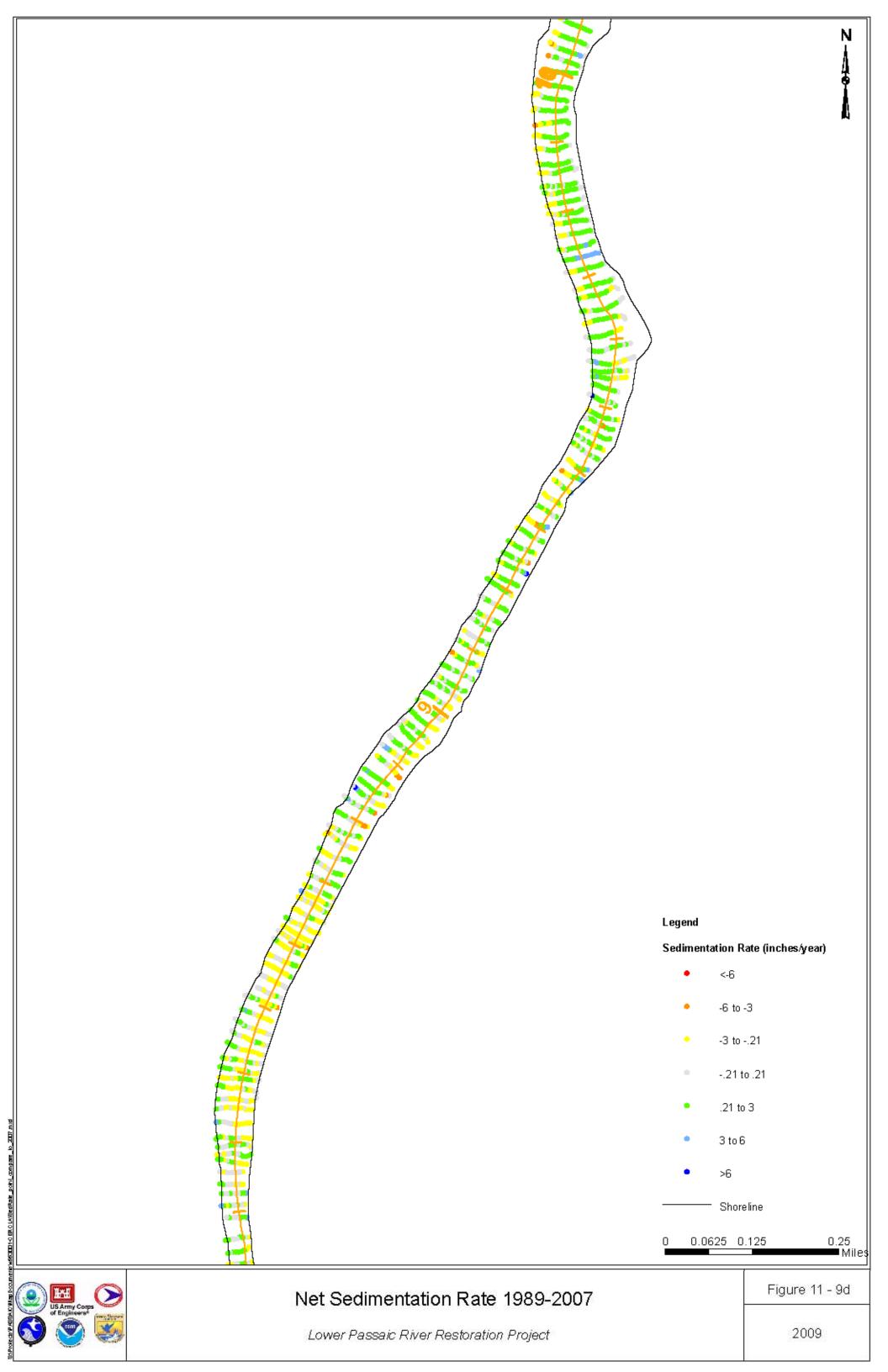


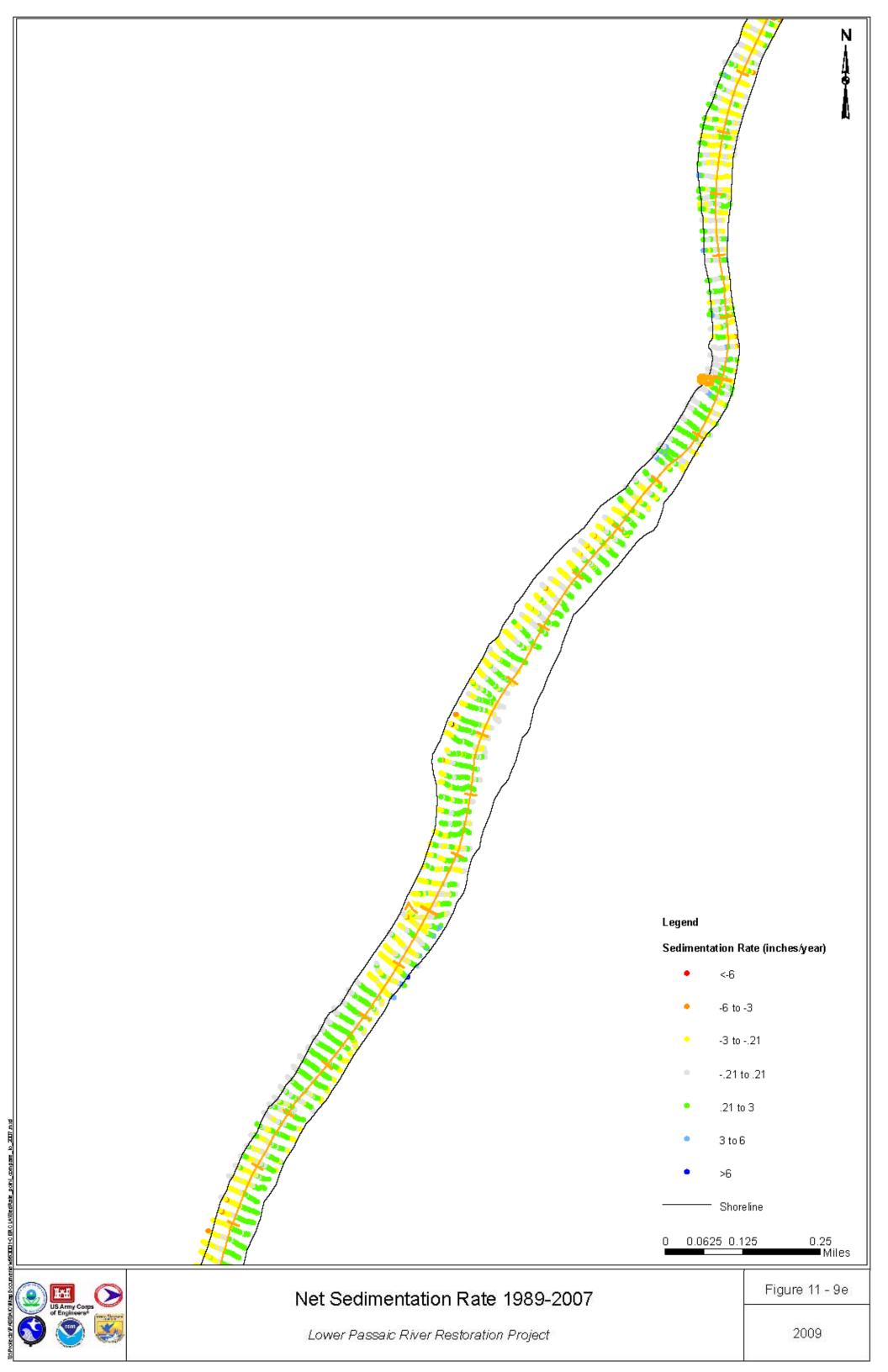


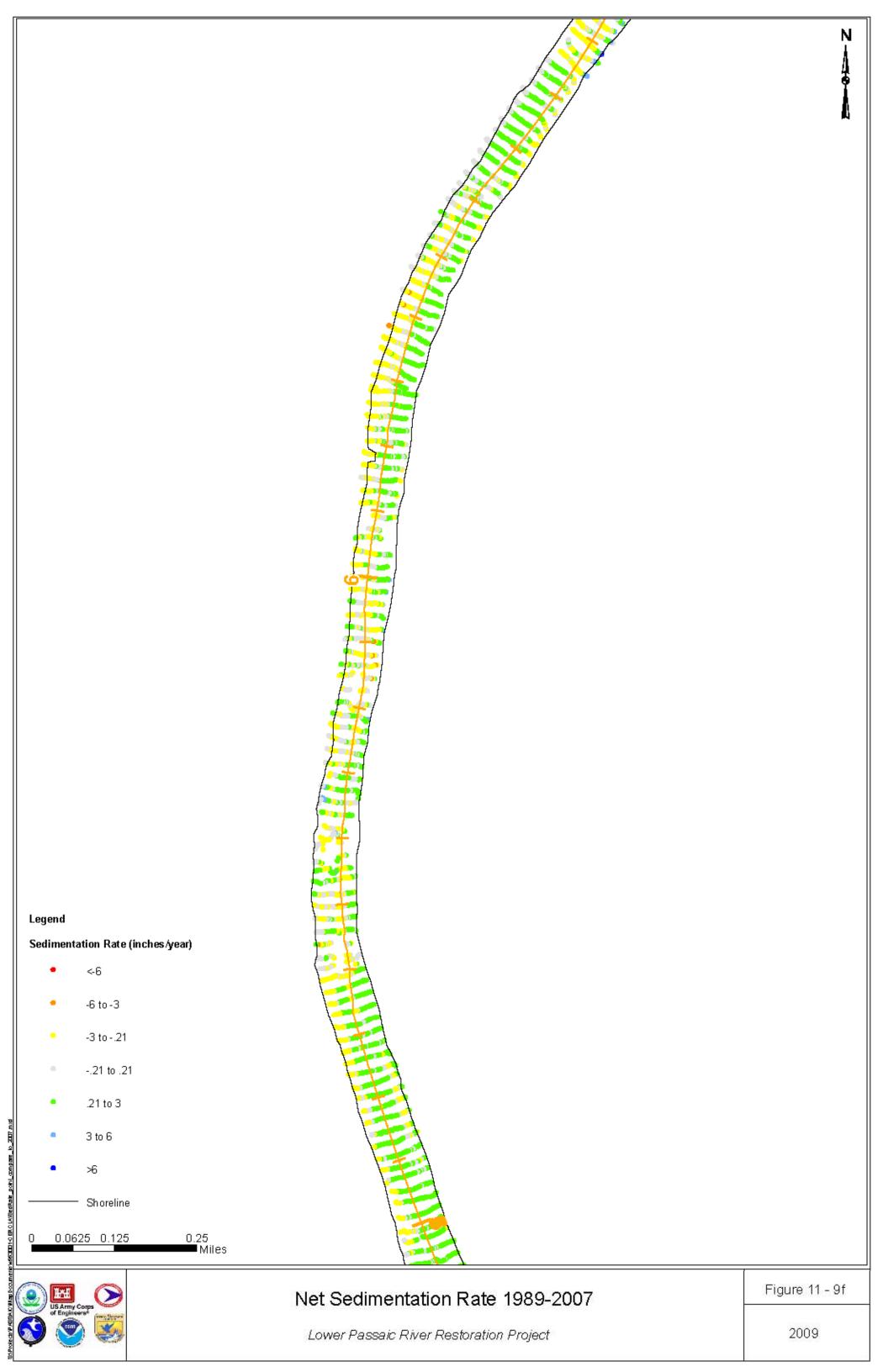










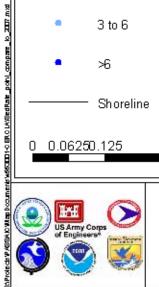


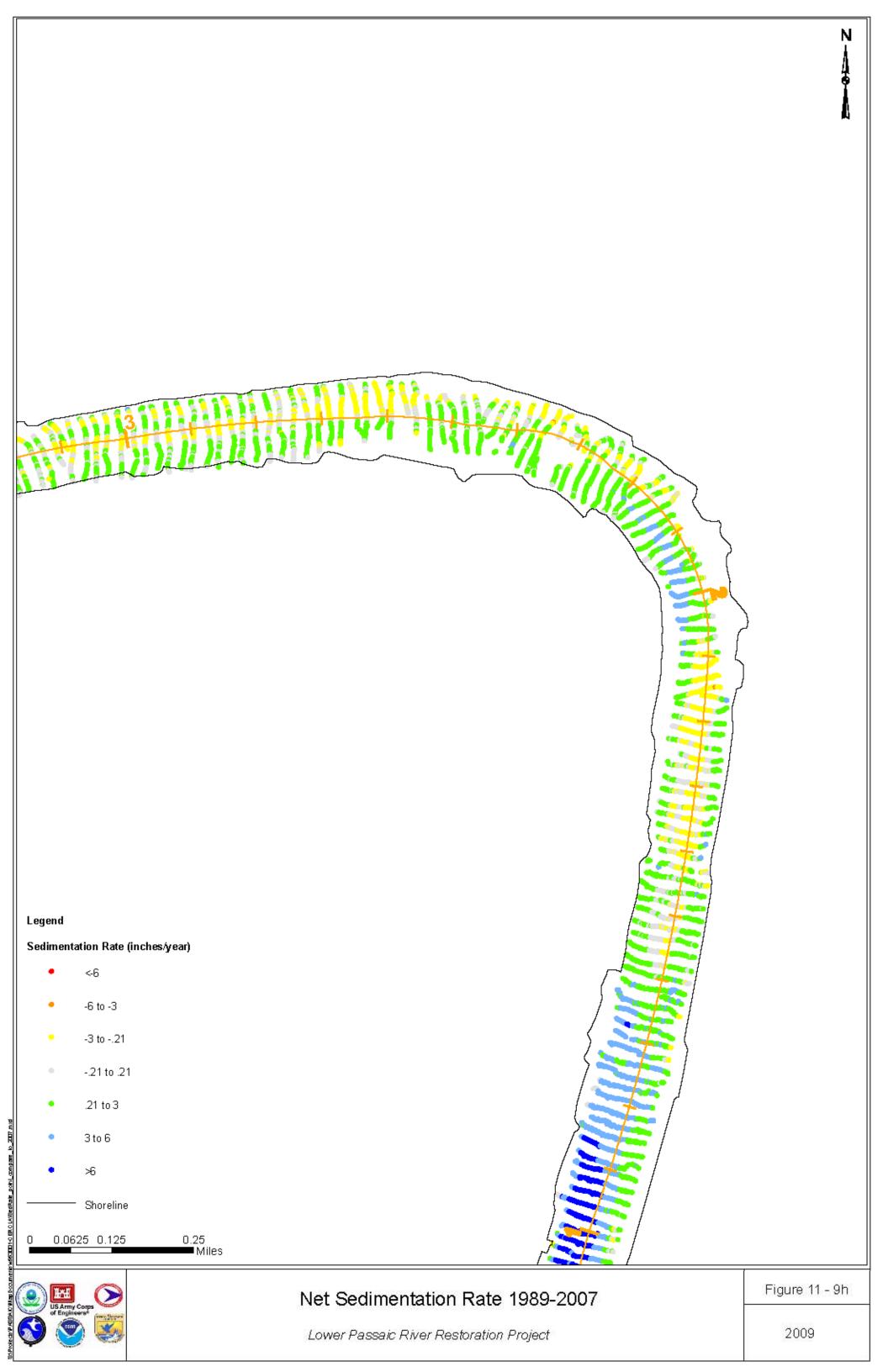


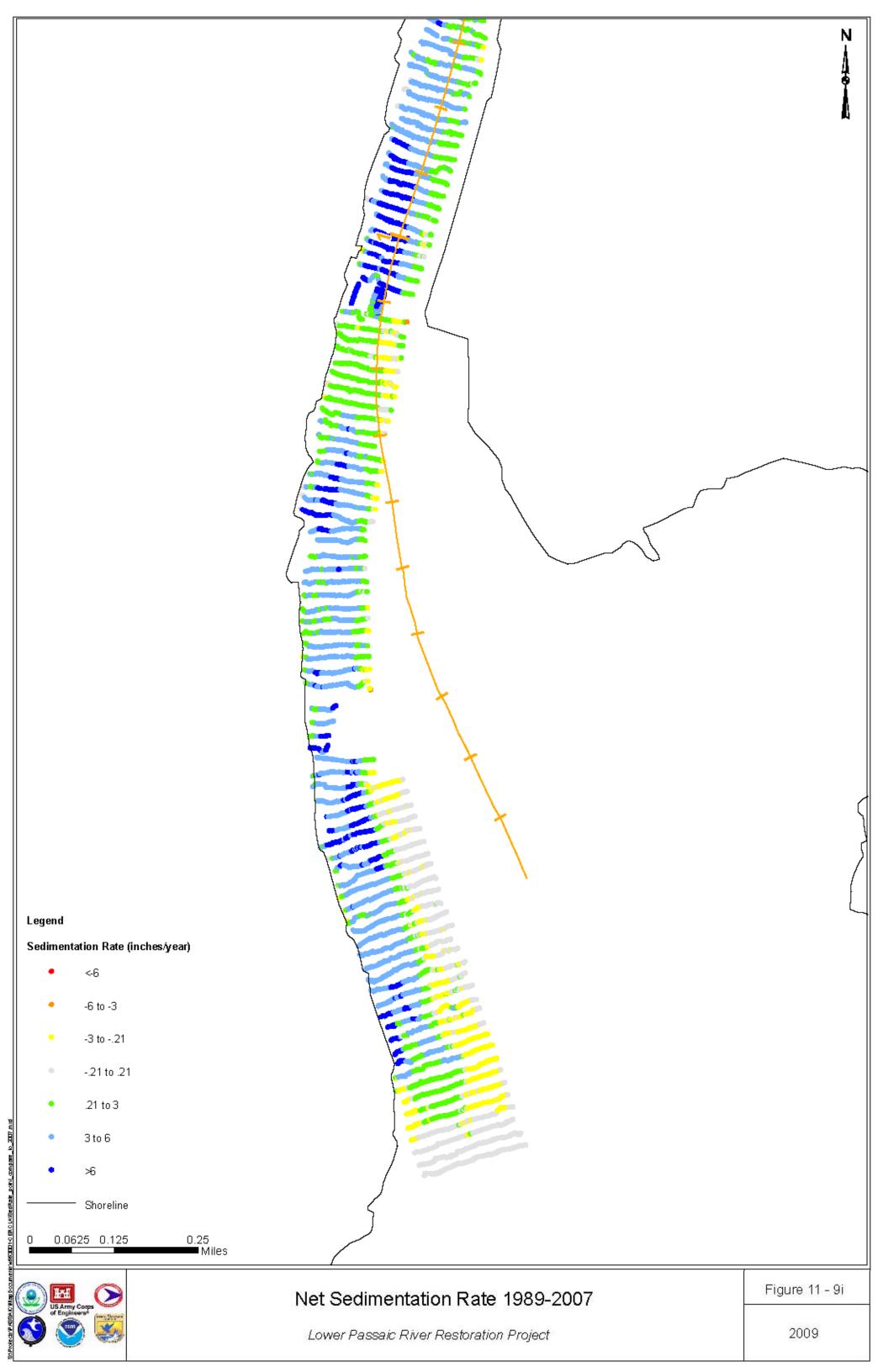
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- -.21 to .21
- .21 to 3
- 3 to 6
- >6

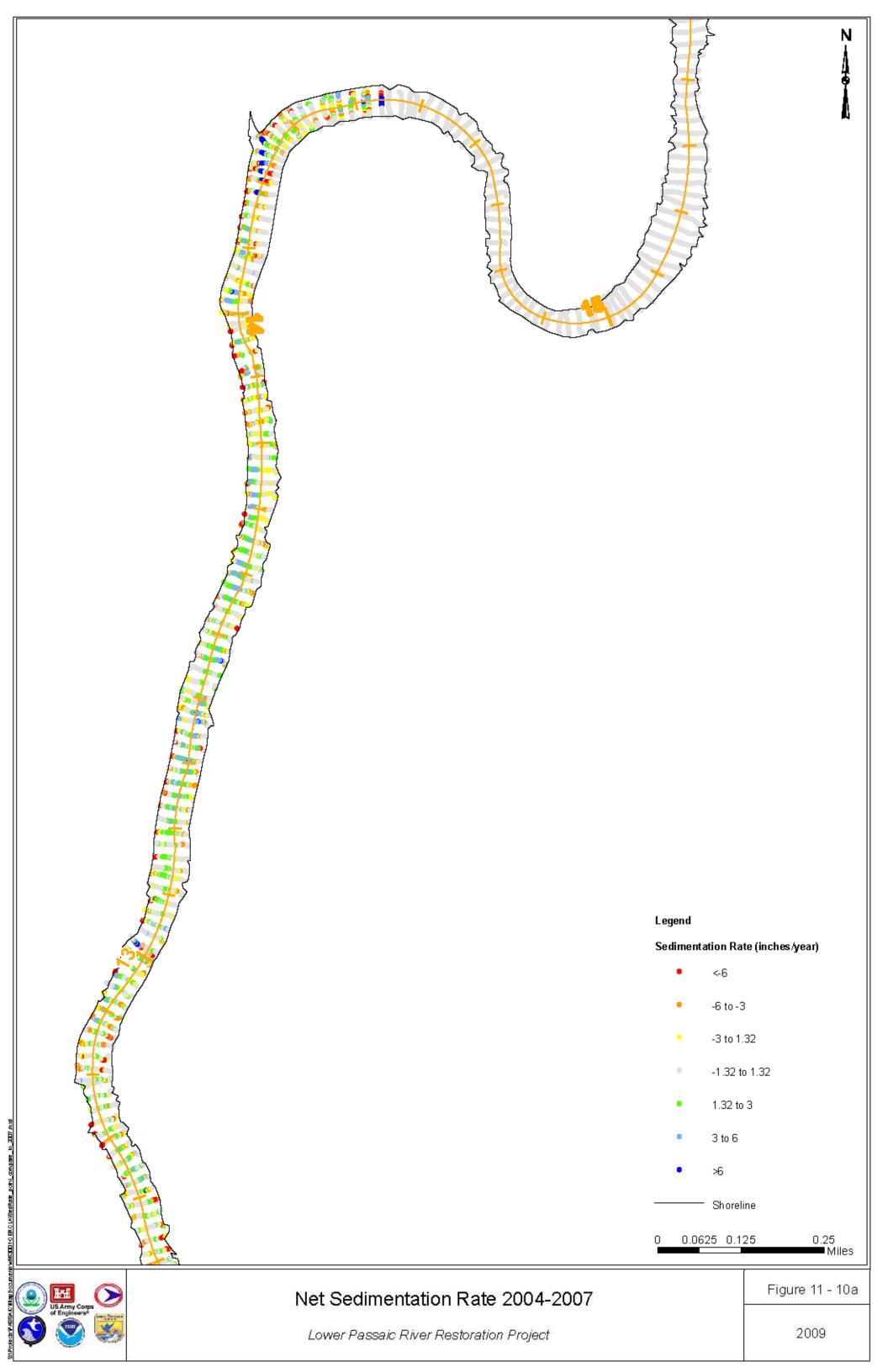
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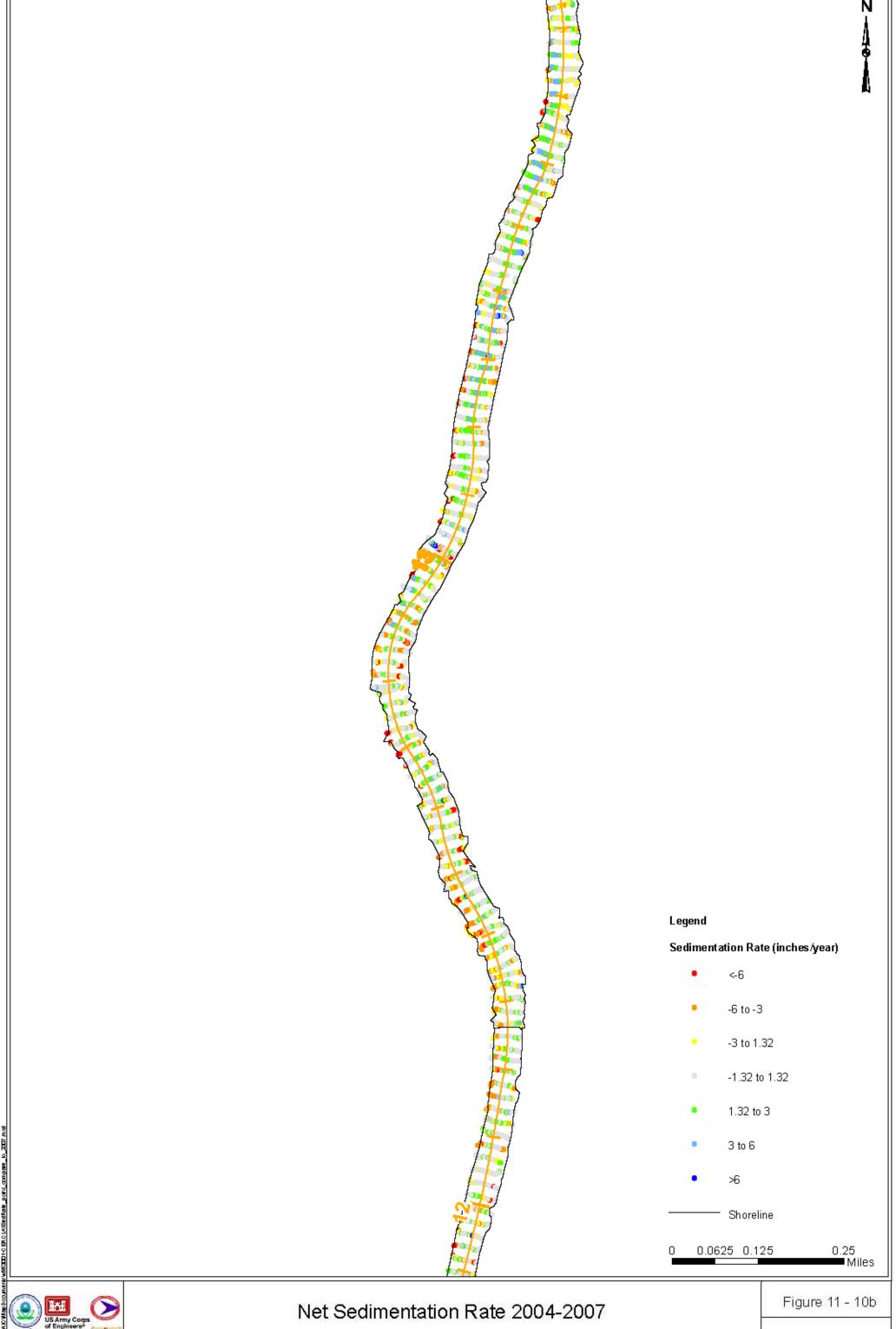
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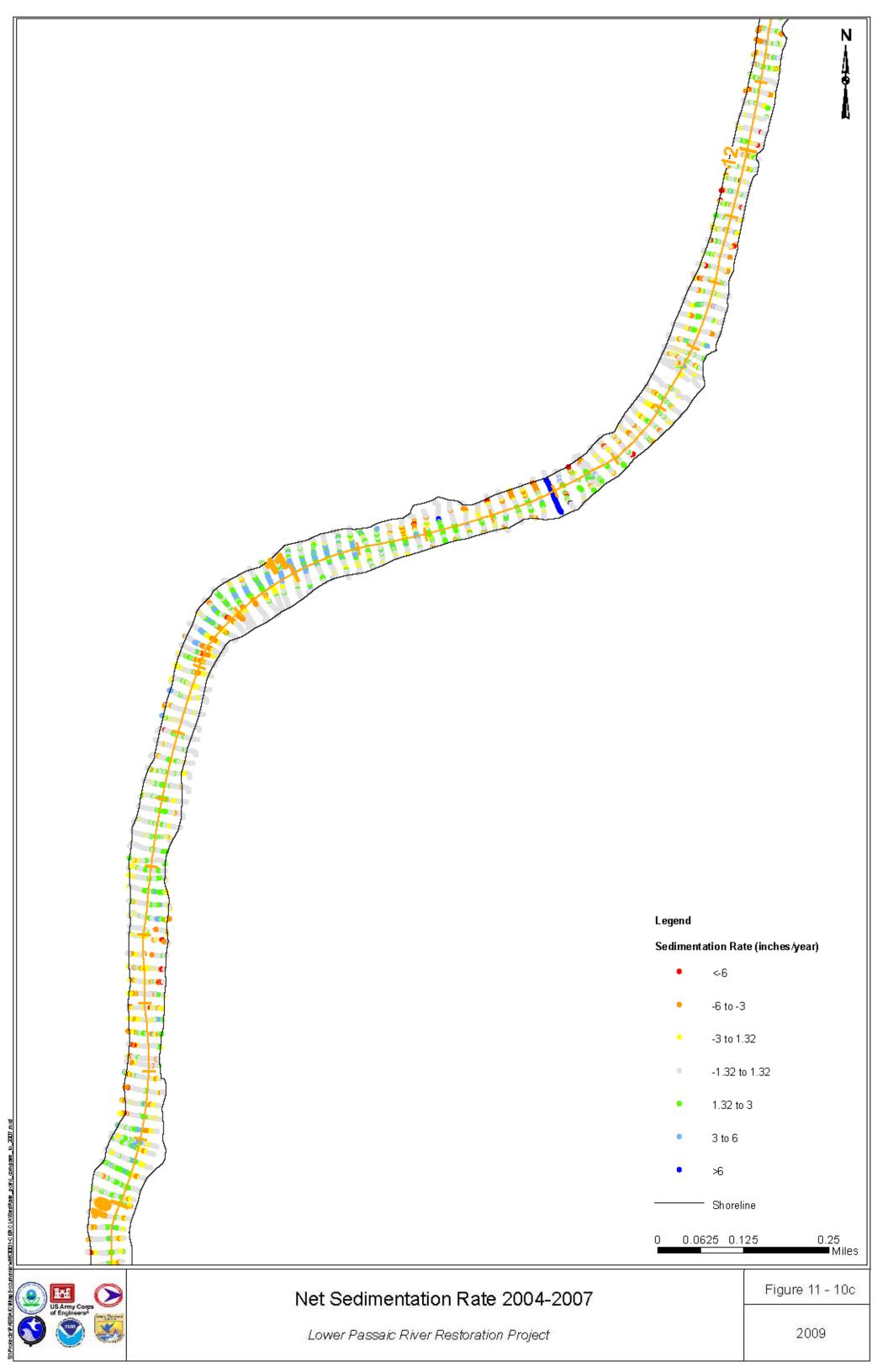


















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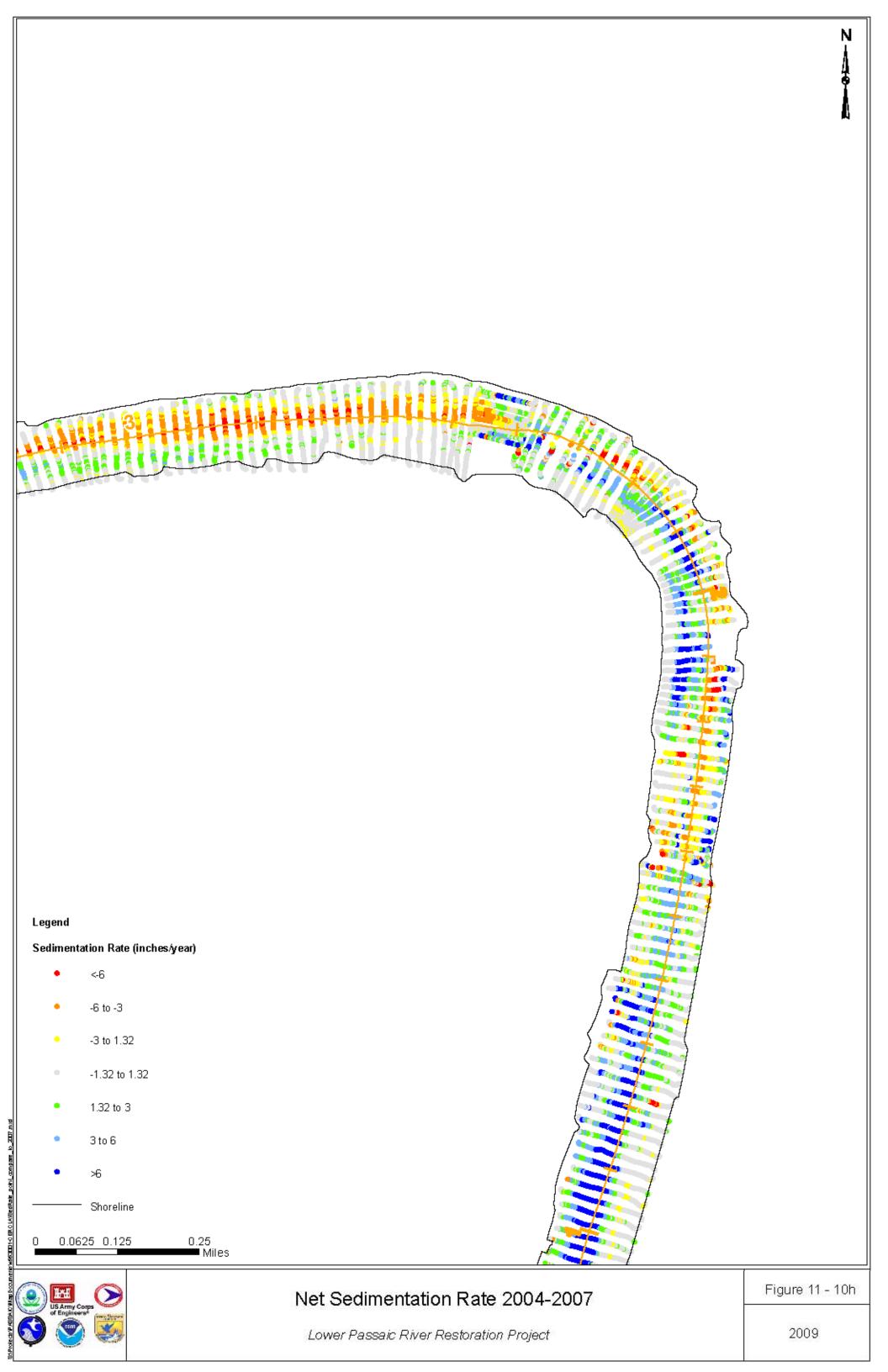


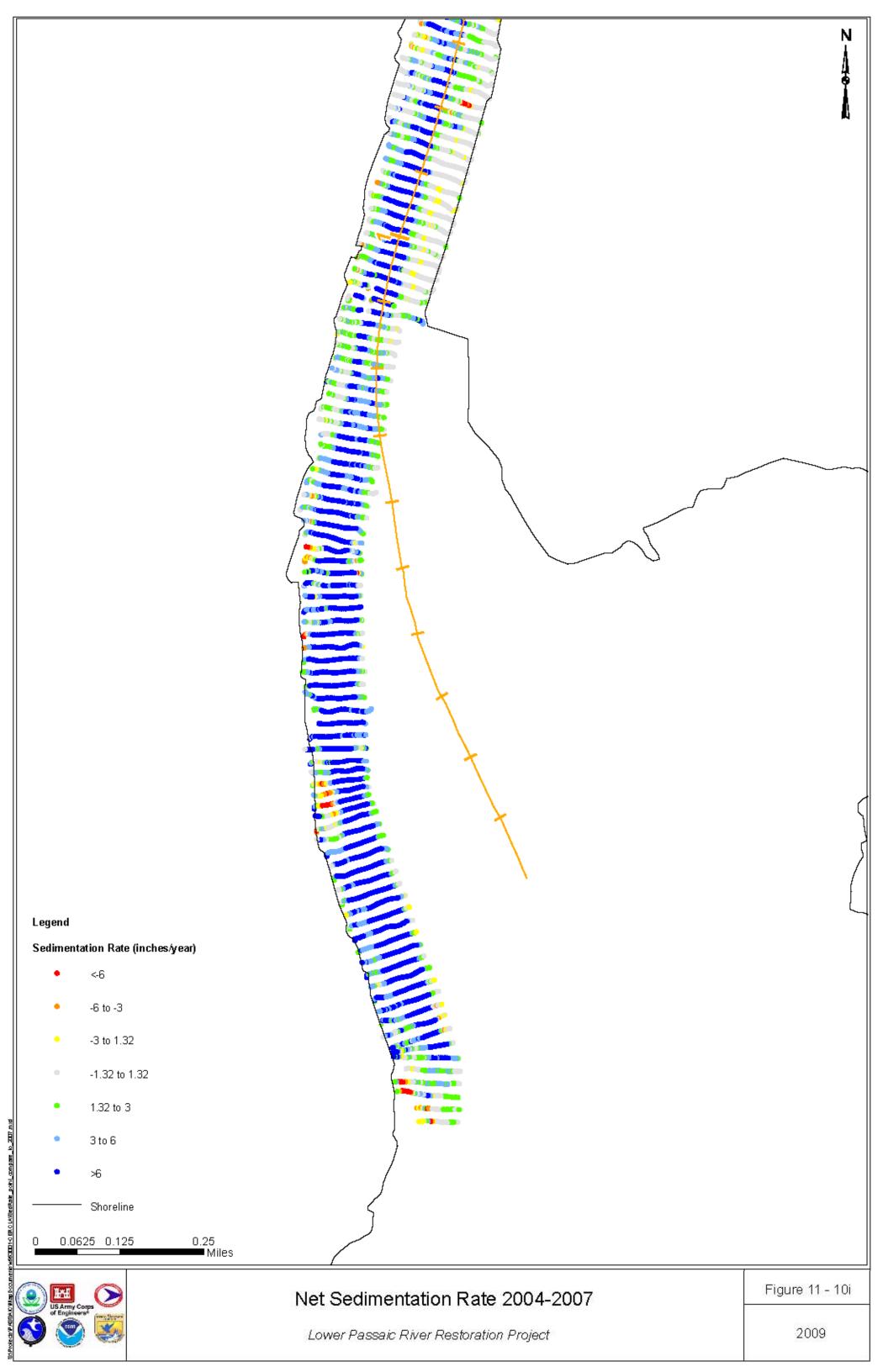
- -3 to 1.32
- -1.32 to 1.32
- 1.32 to 3
- 3 to 6
- >6

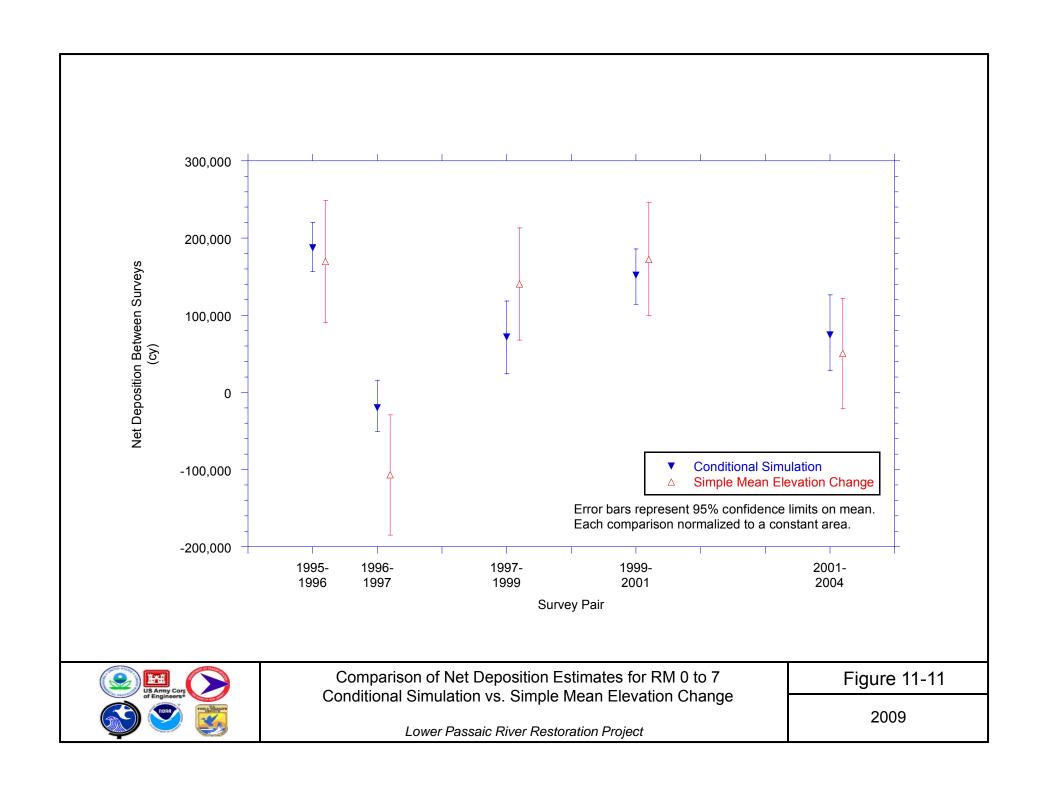
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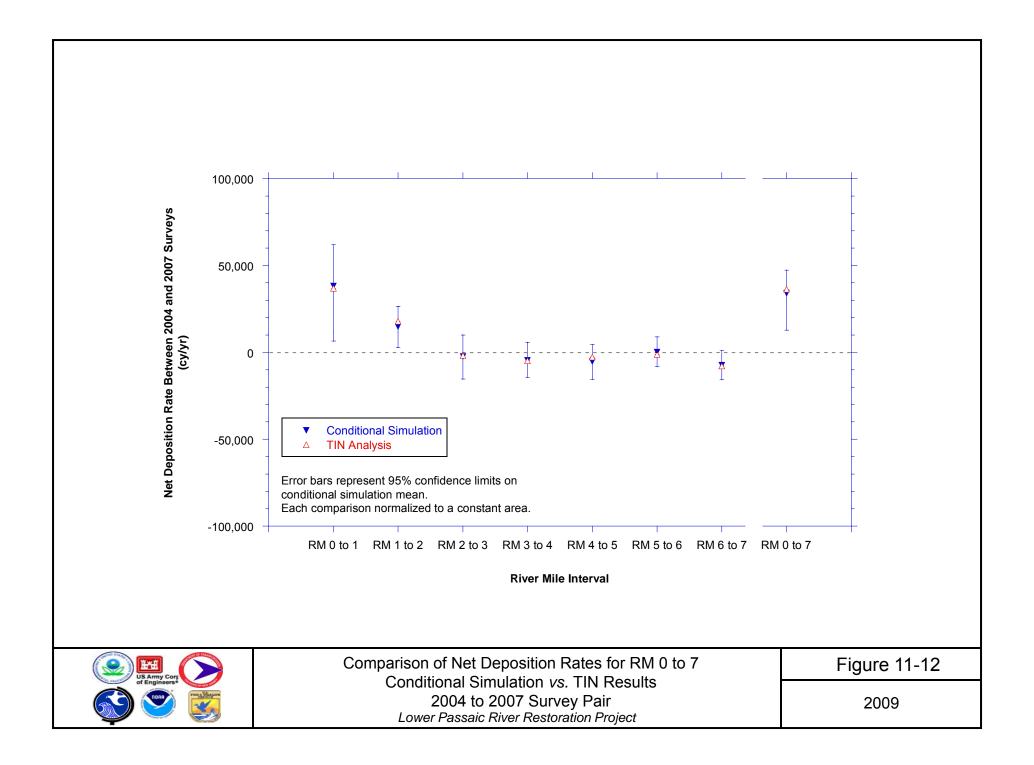
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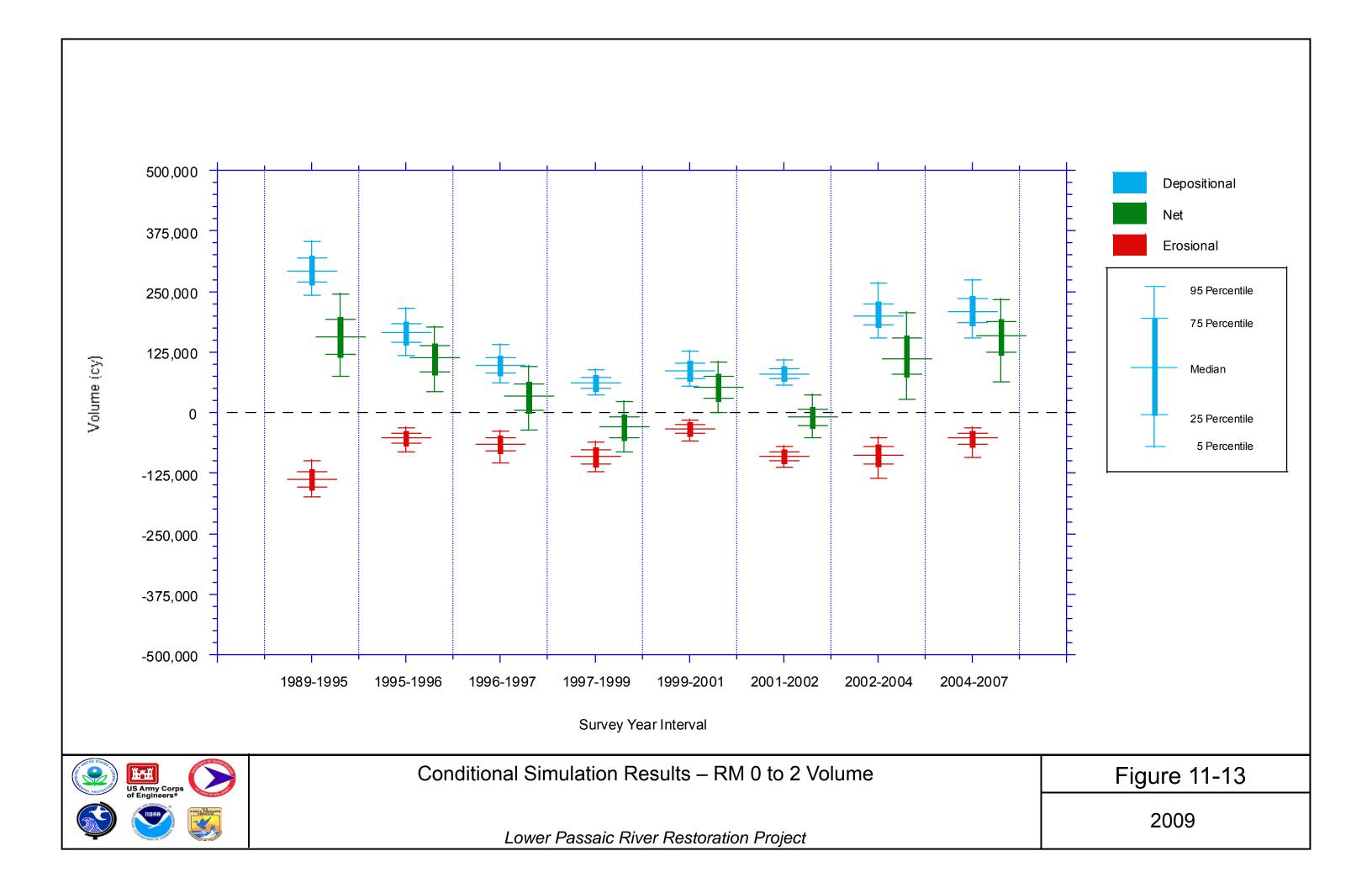


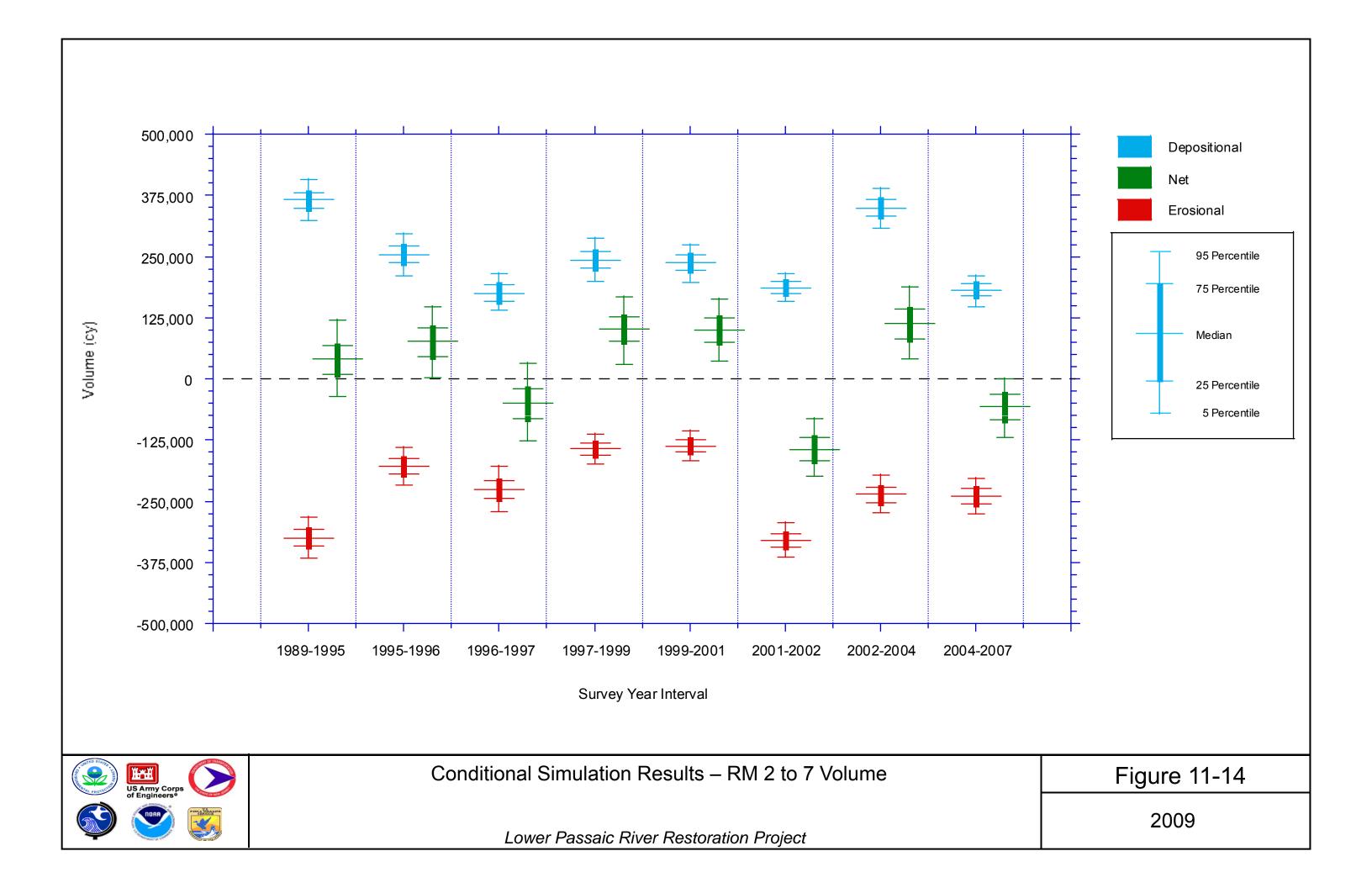


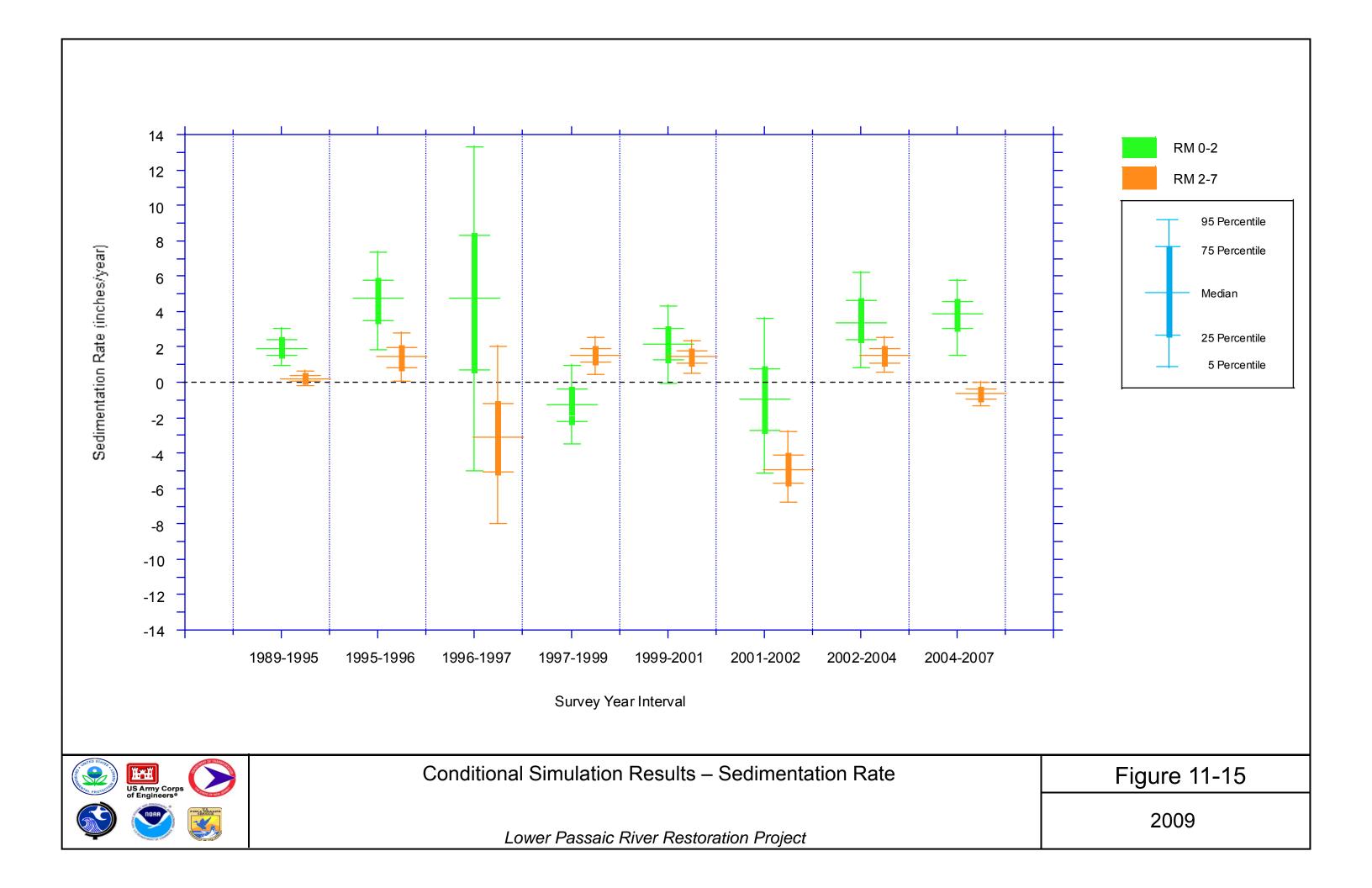


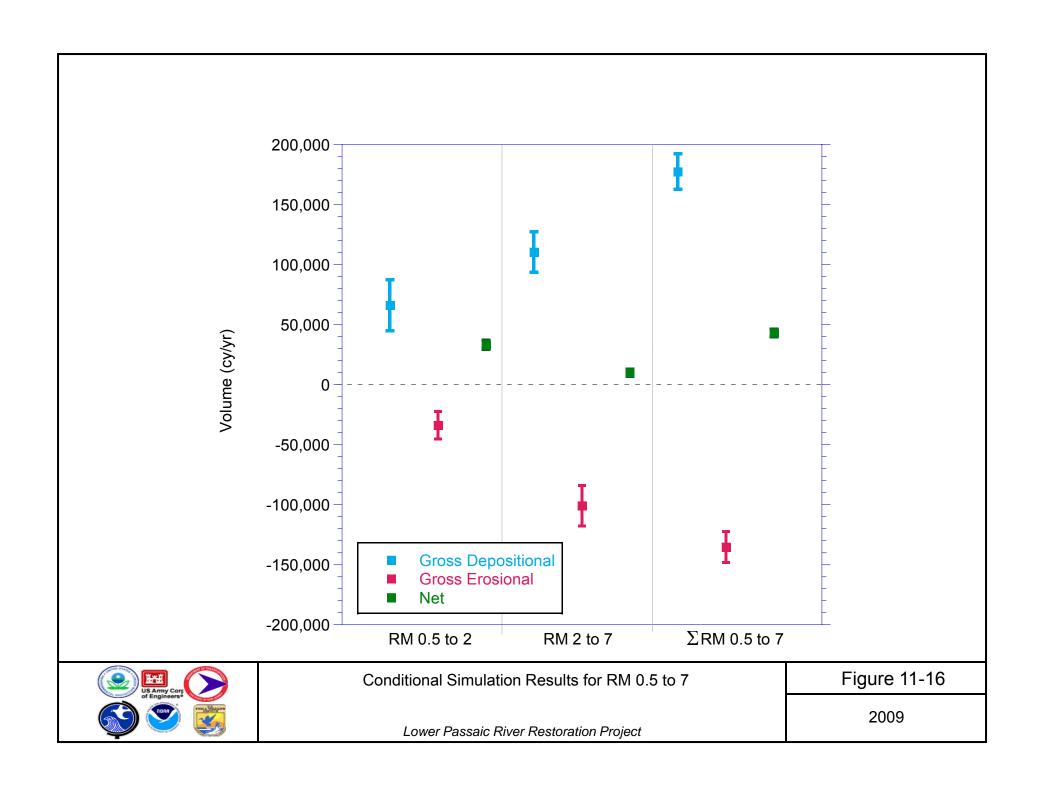


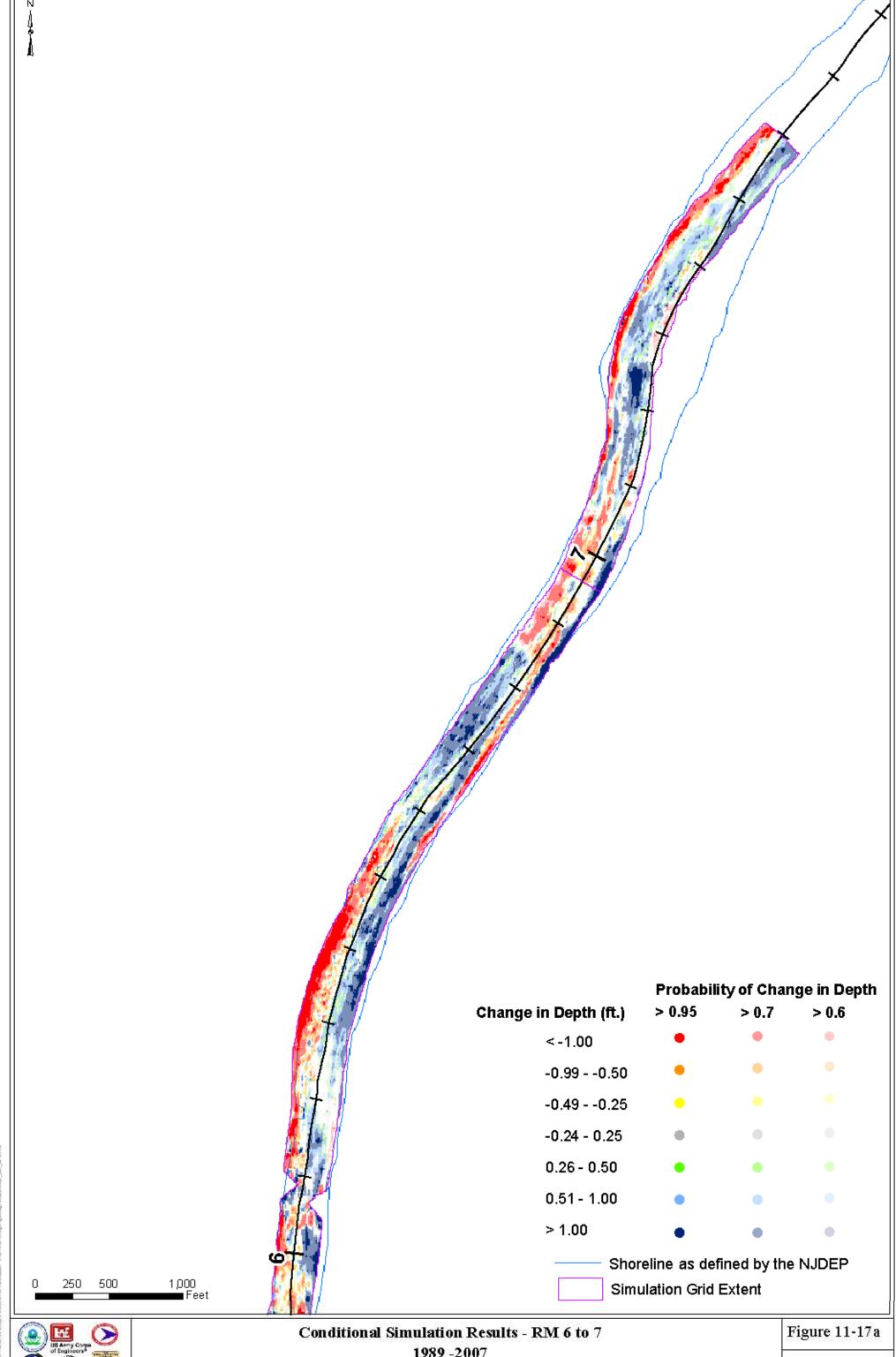




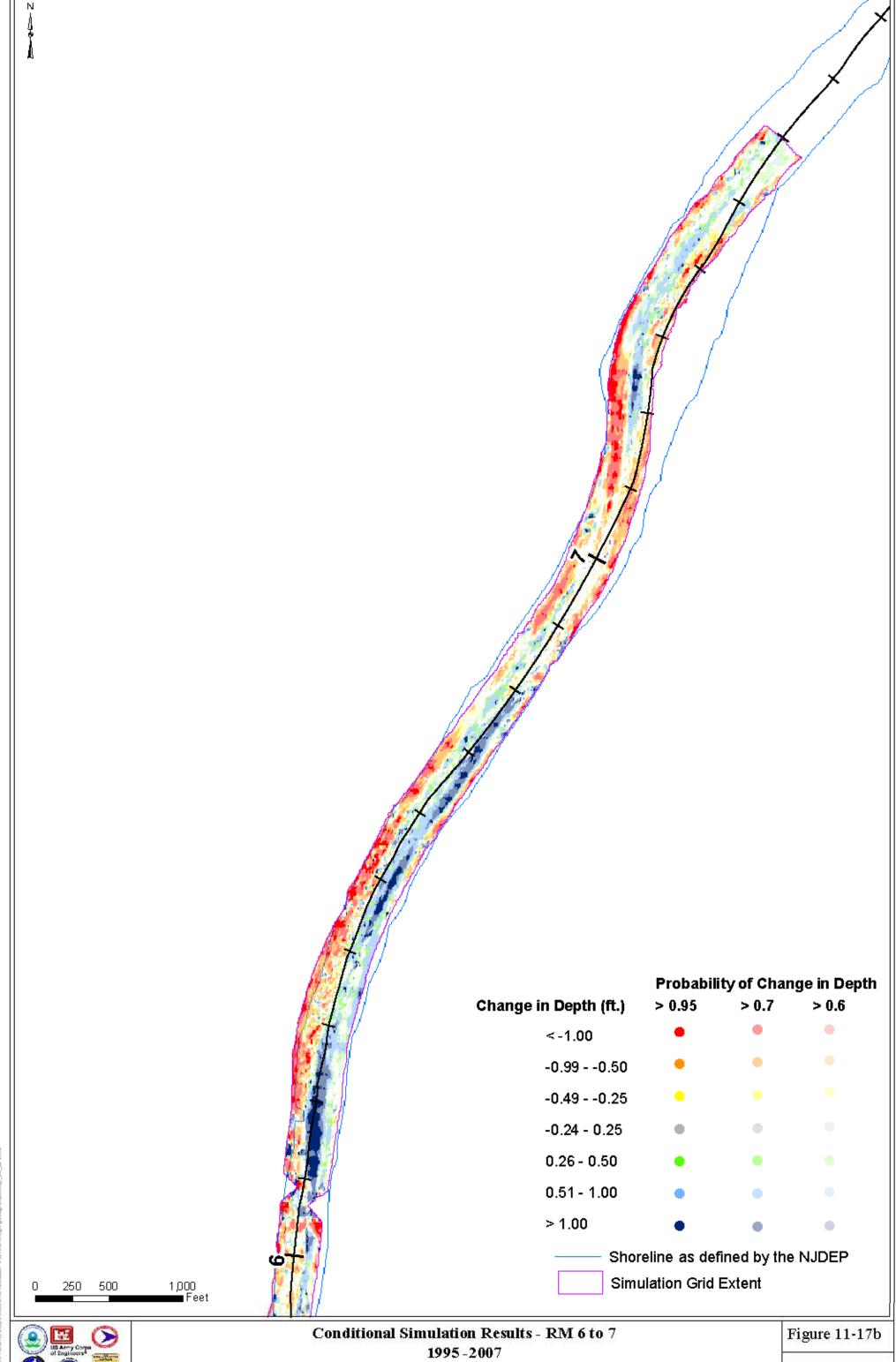


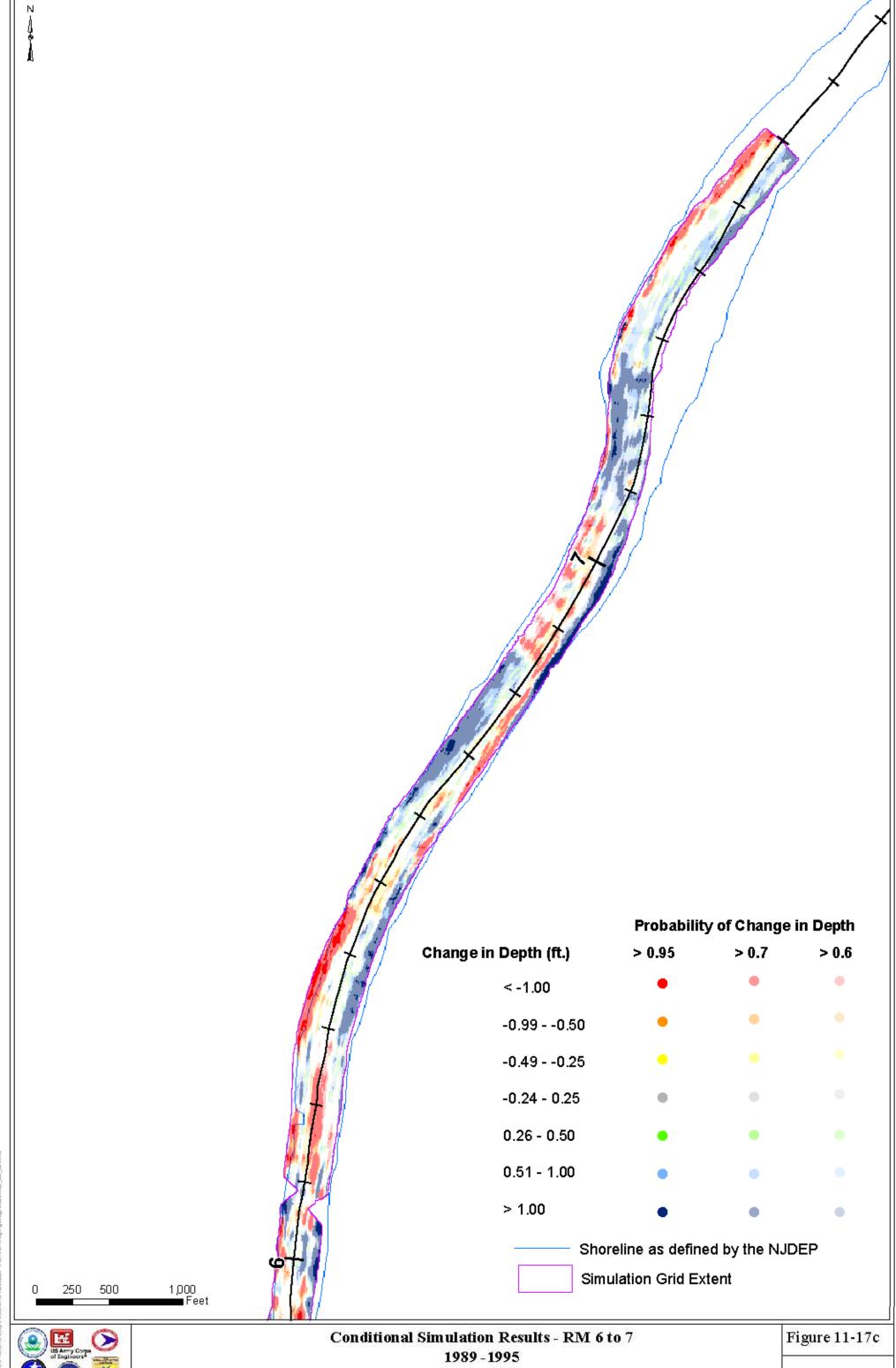


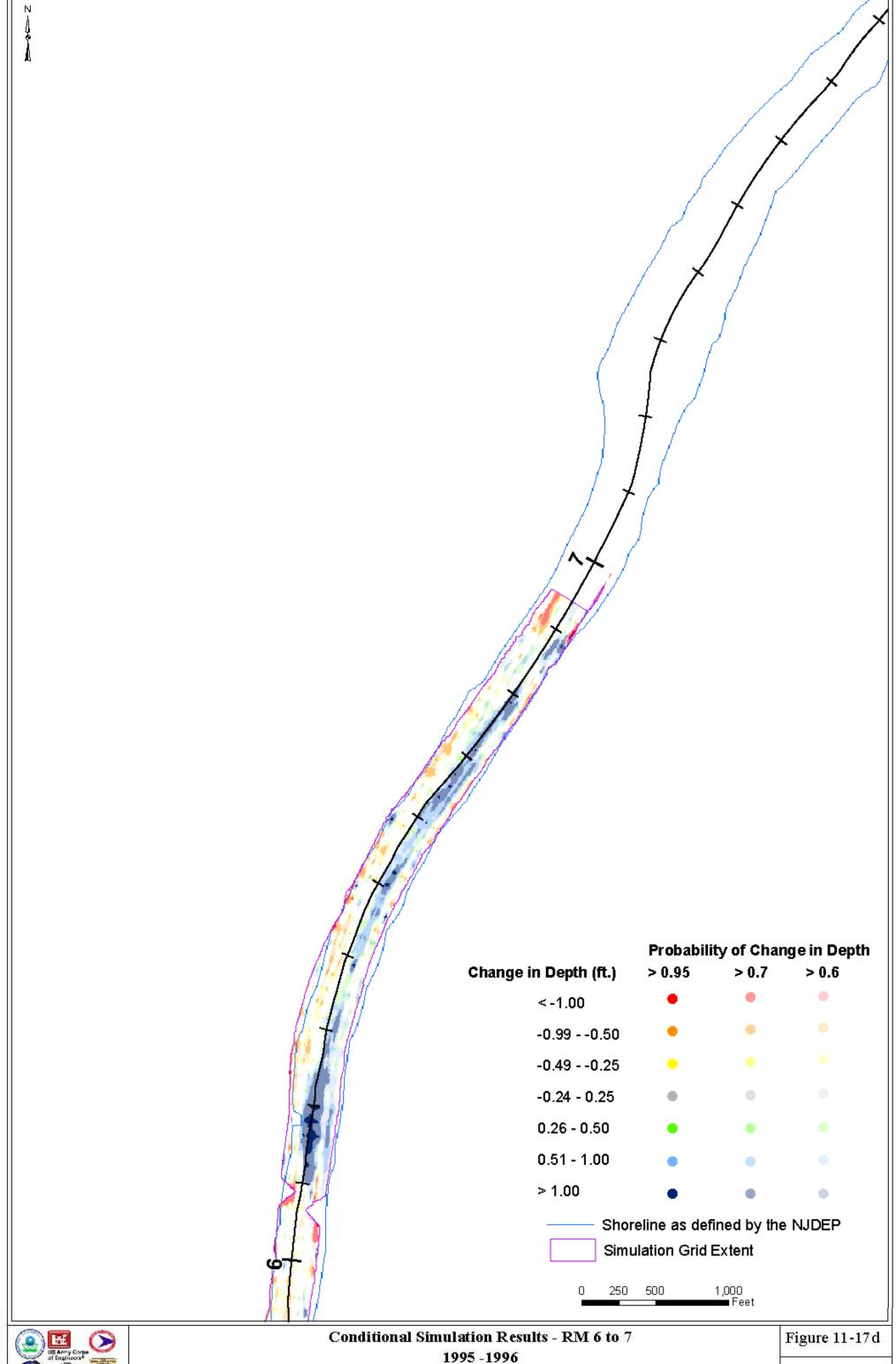




Lower Passaic River Restoration

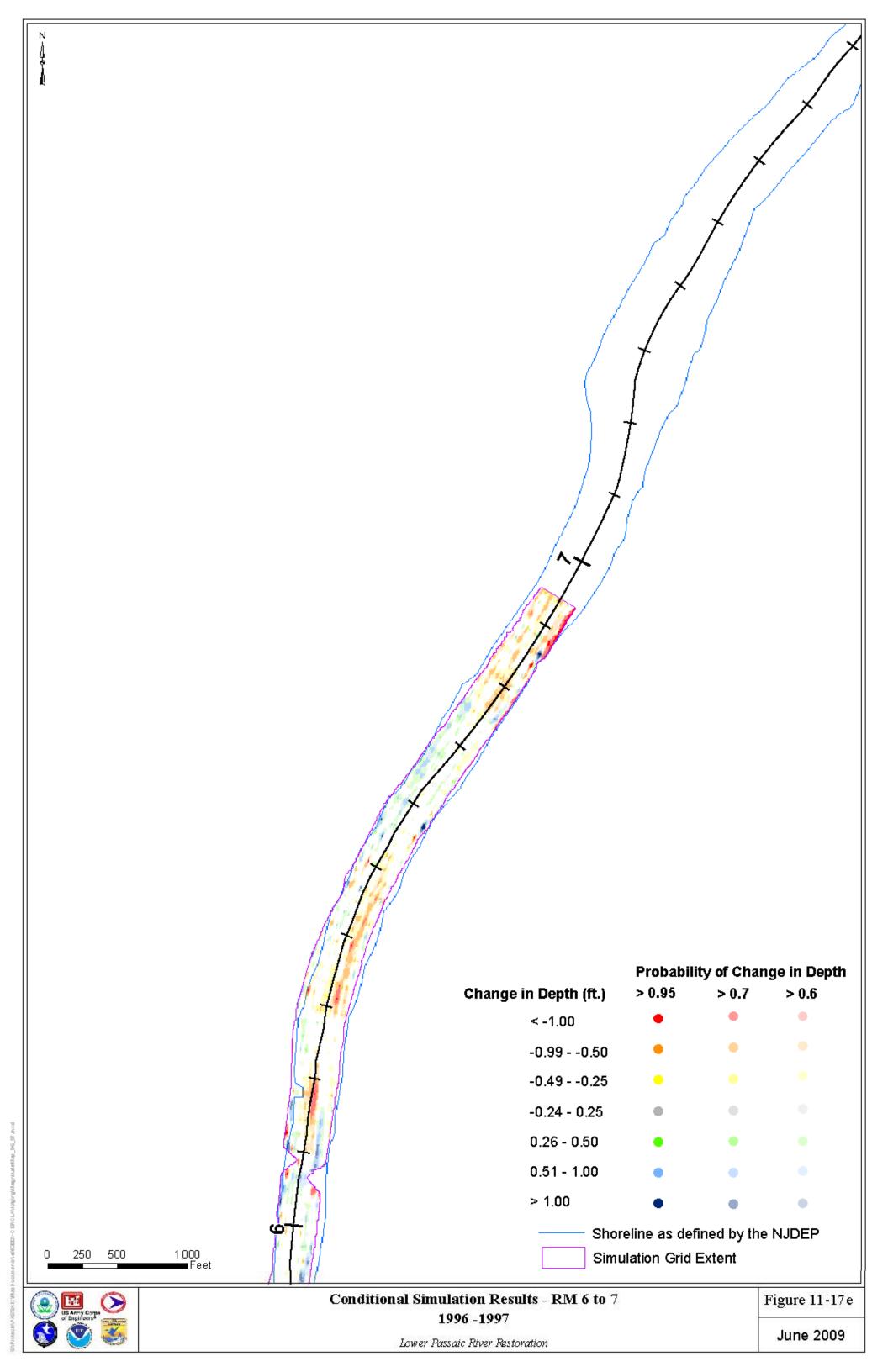


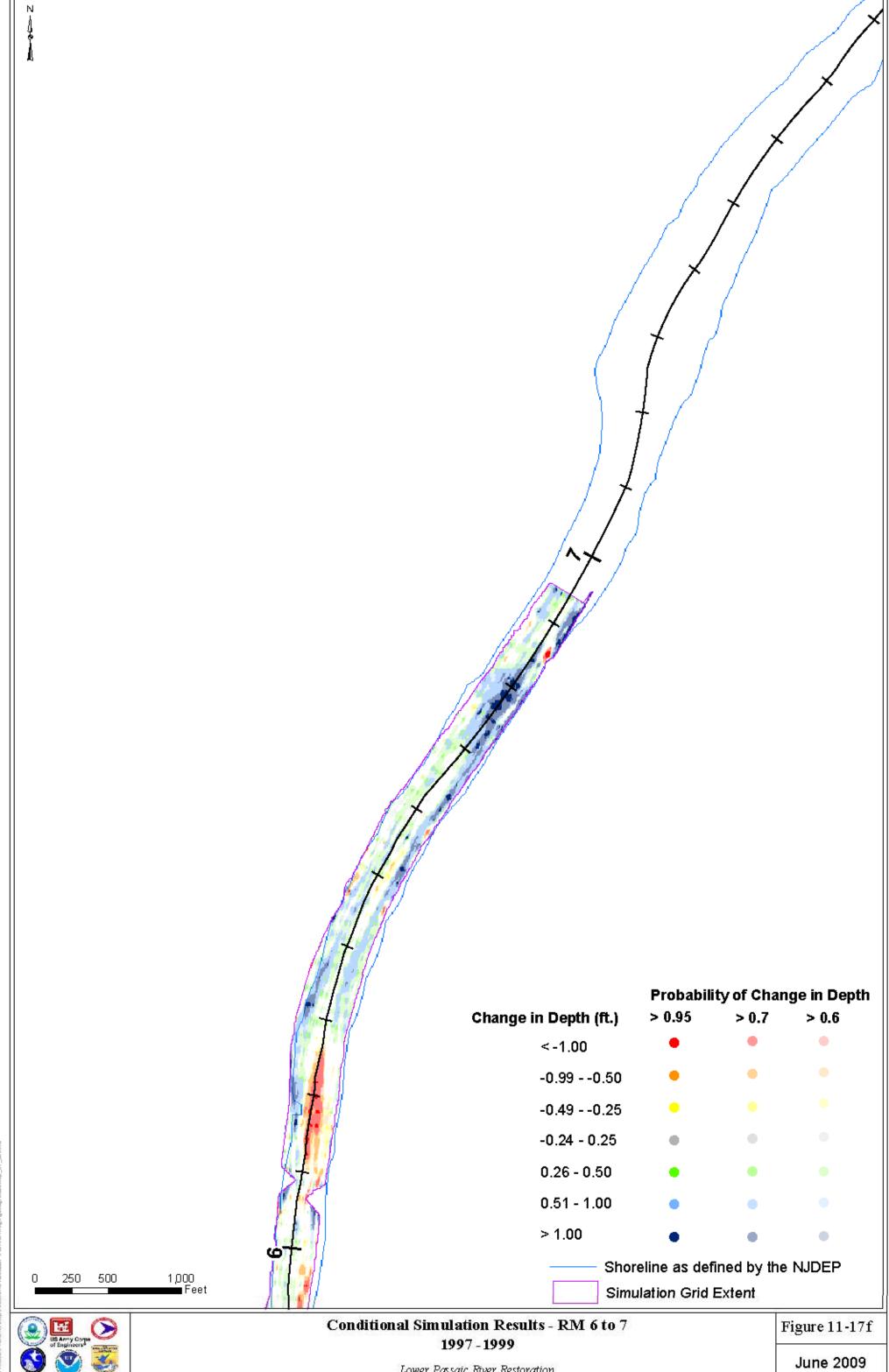


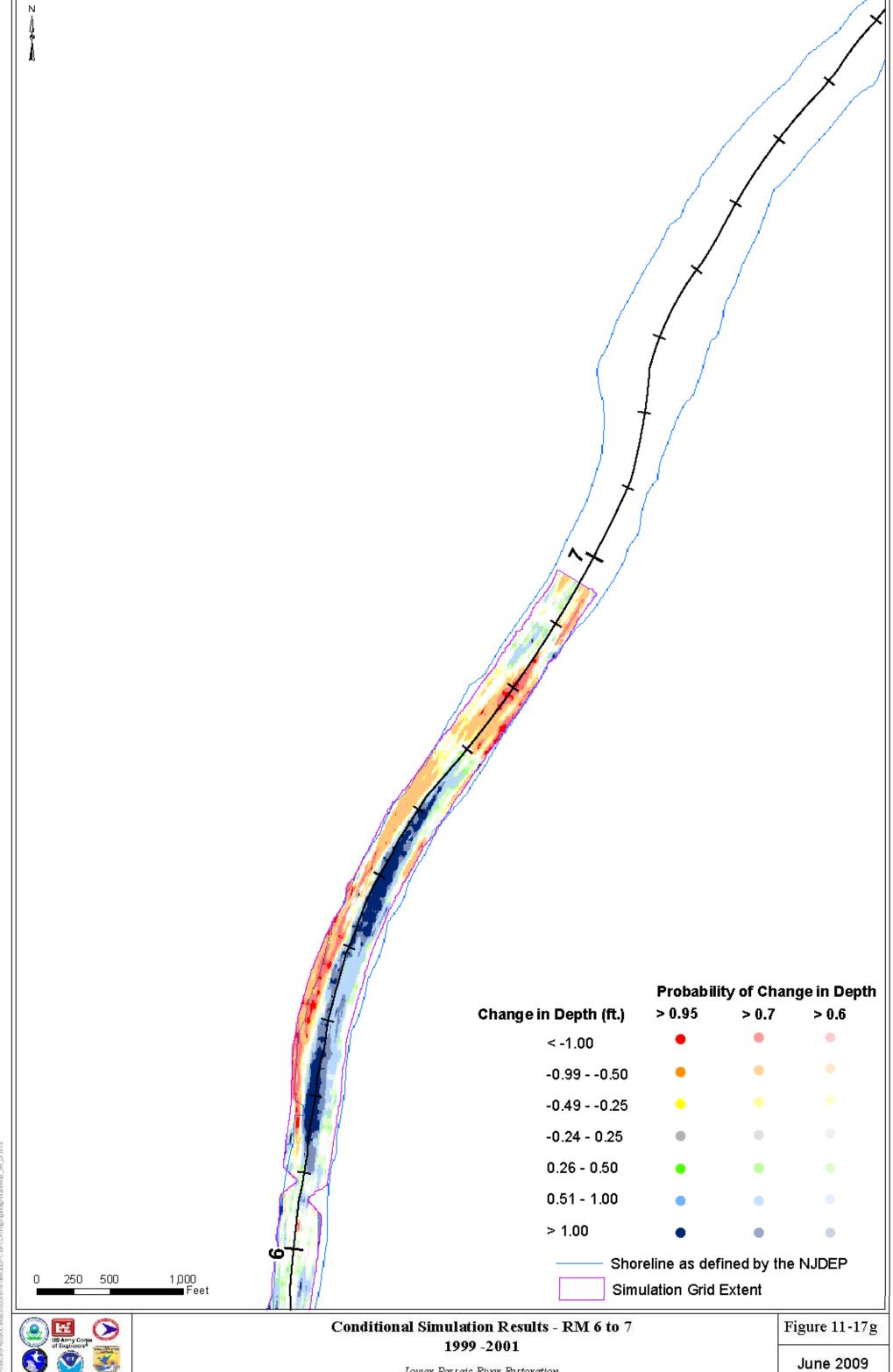


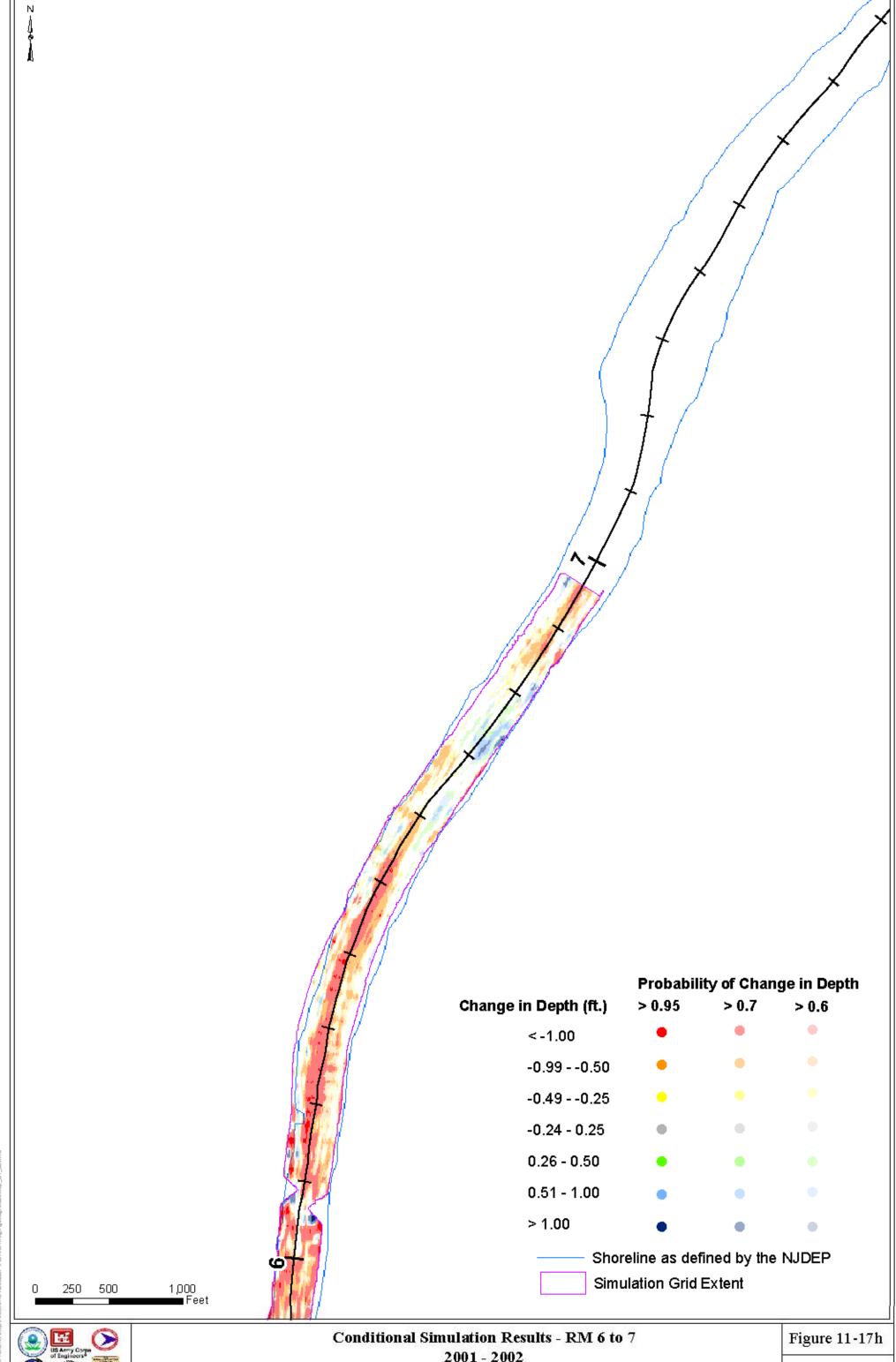
1995 - 1996

Lower Passaic River Restoration



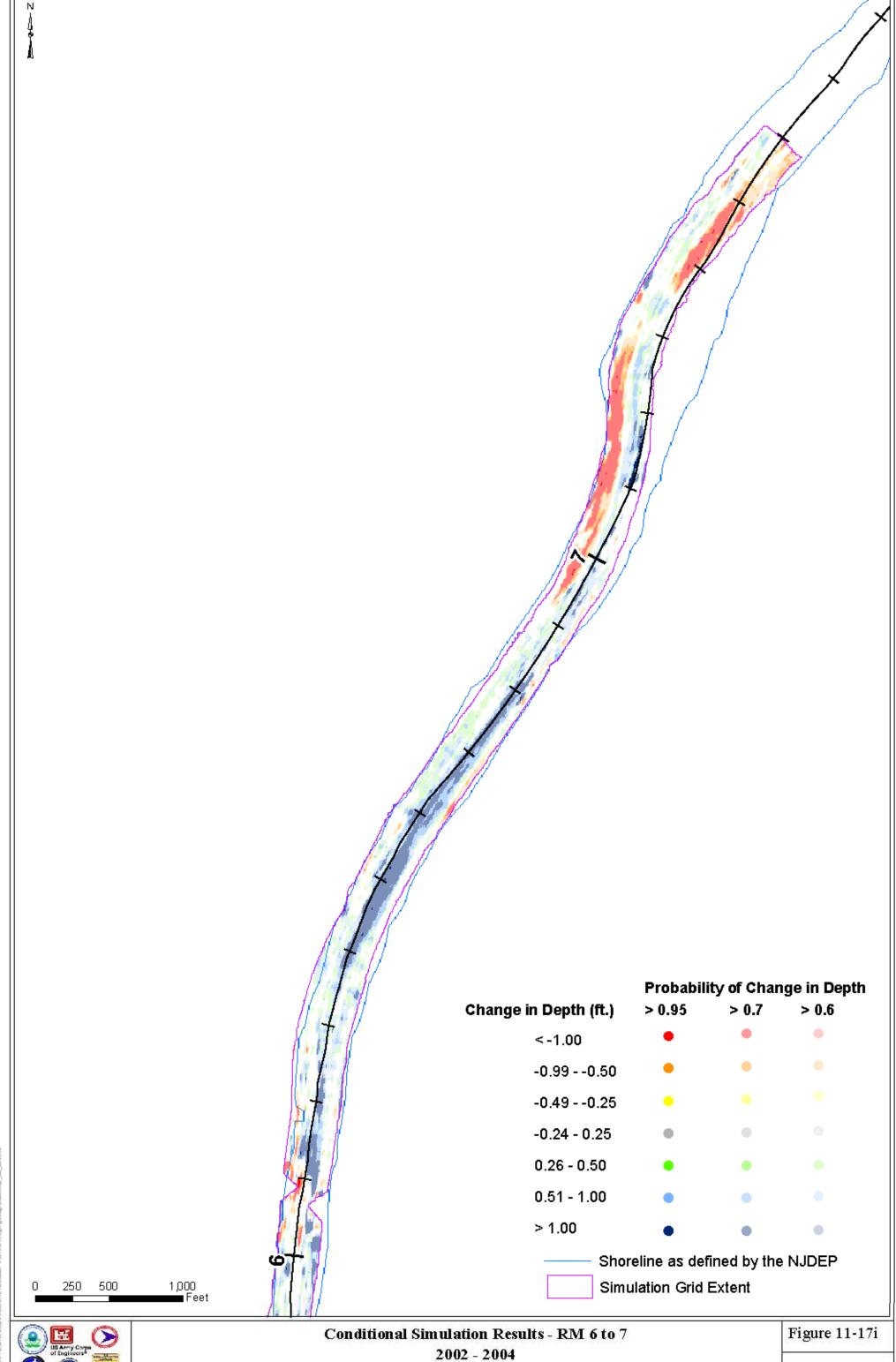


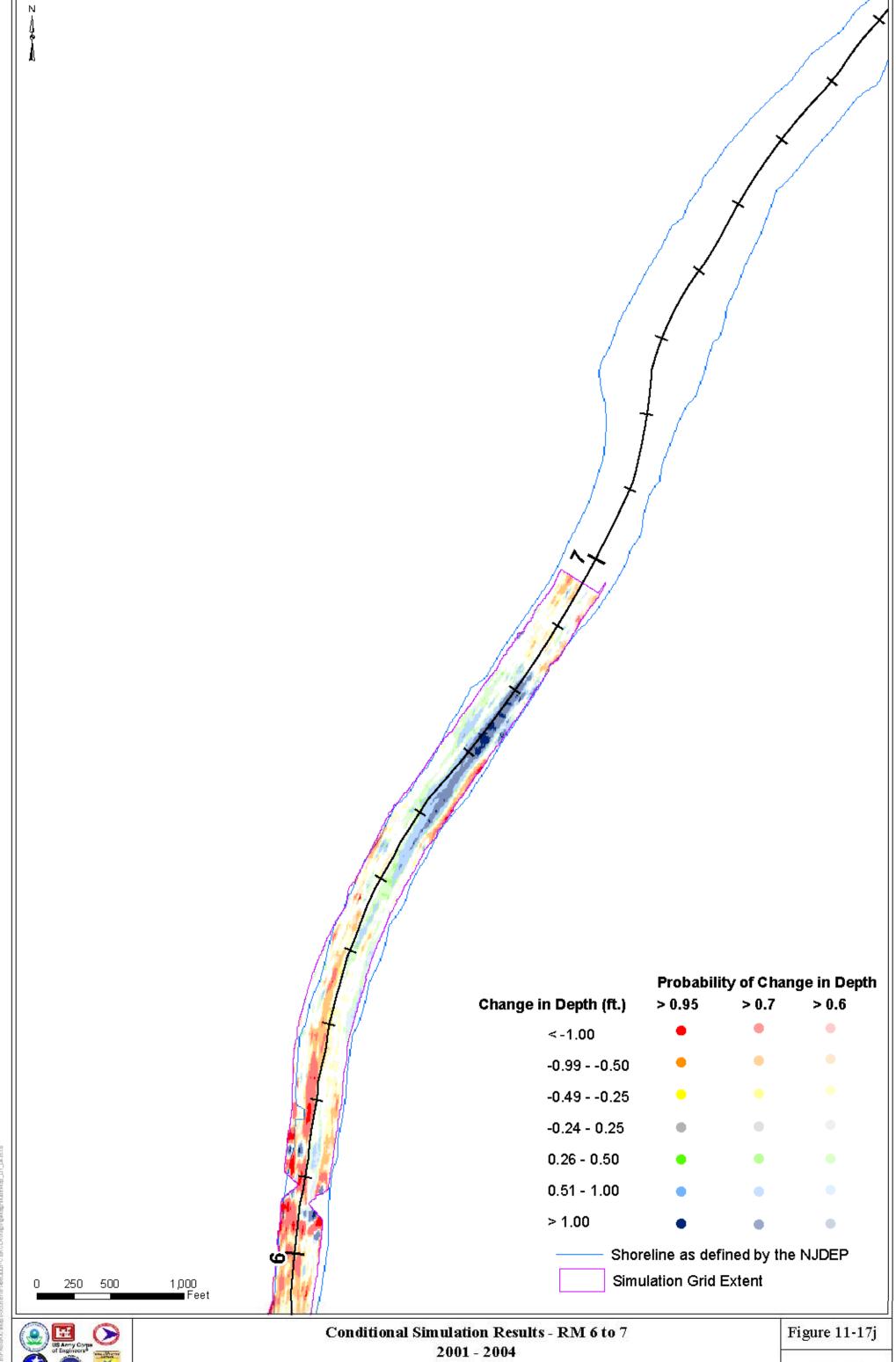


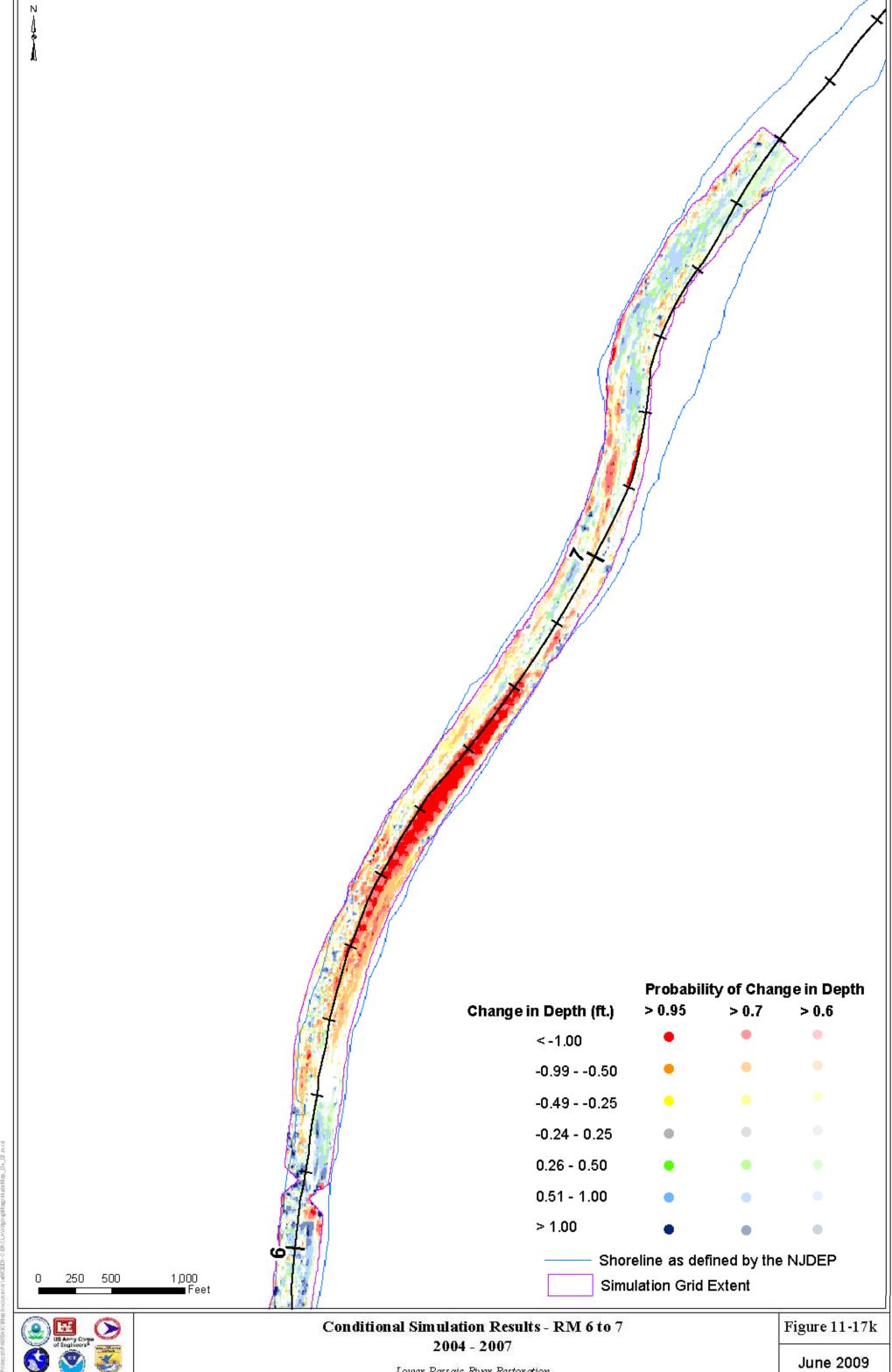


2001 - 2002

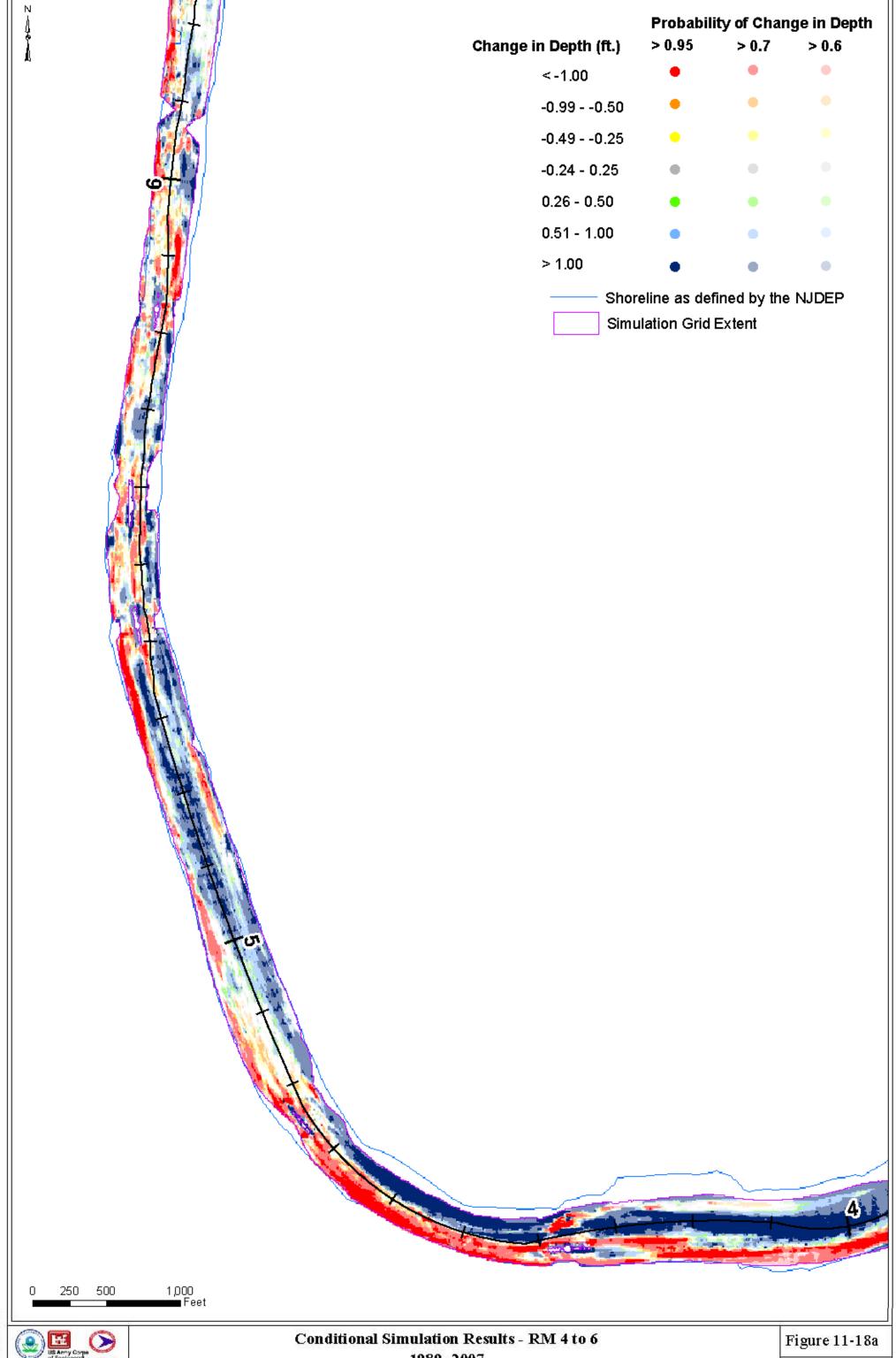
June 2009

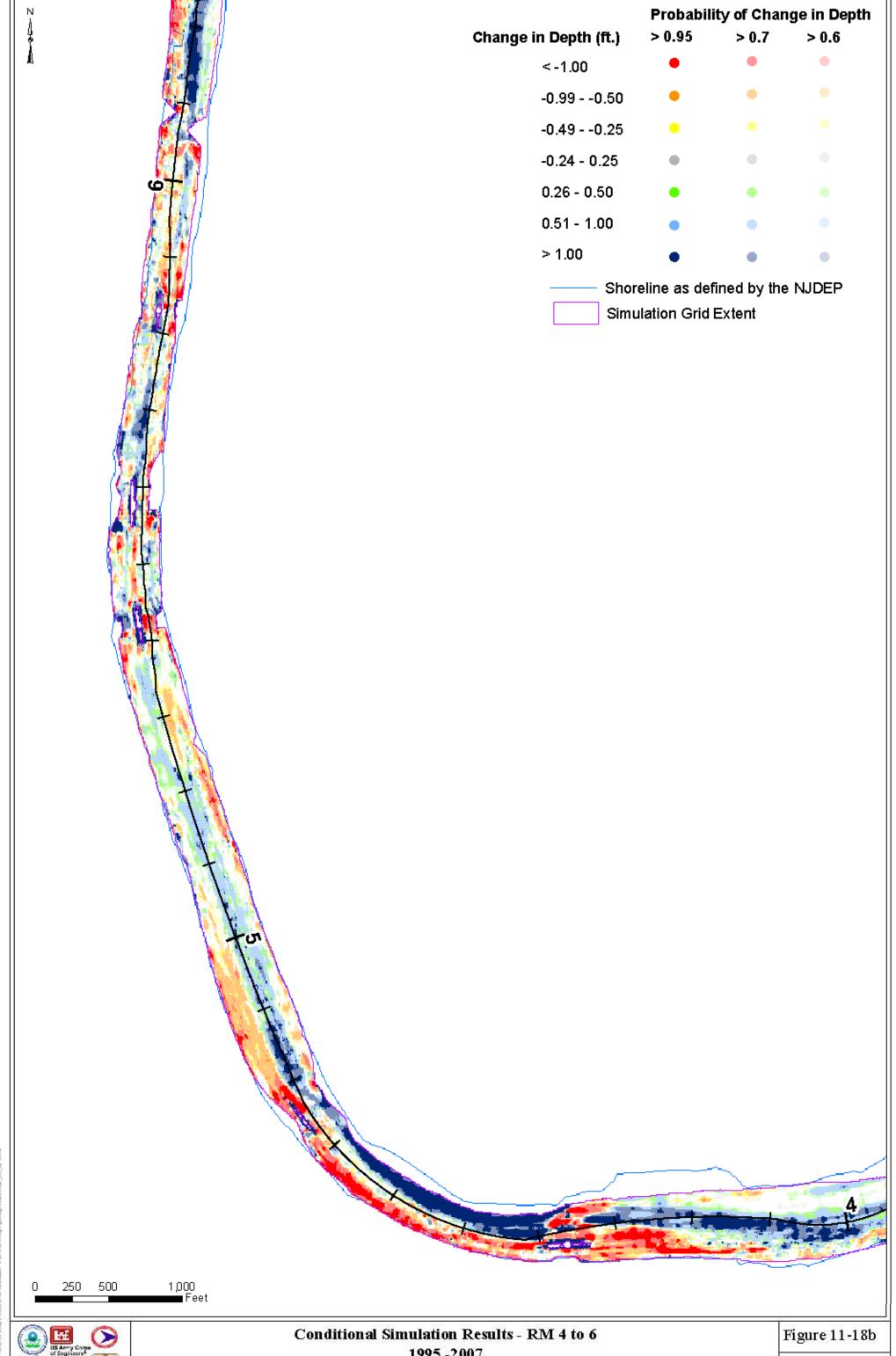


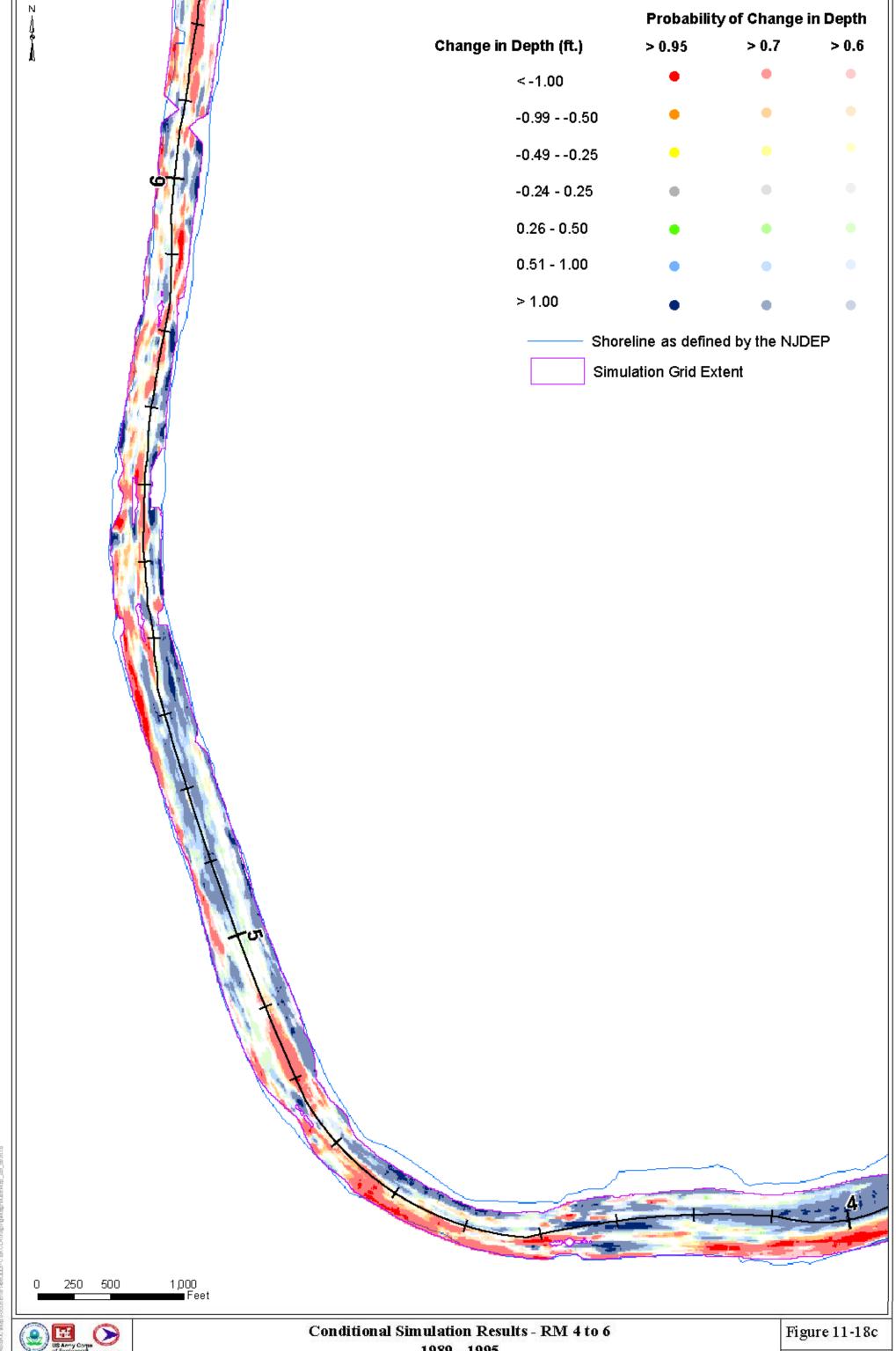


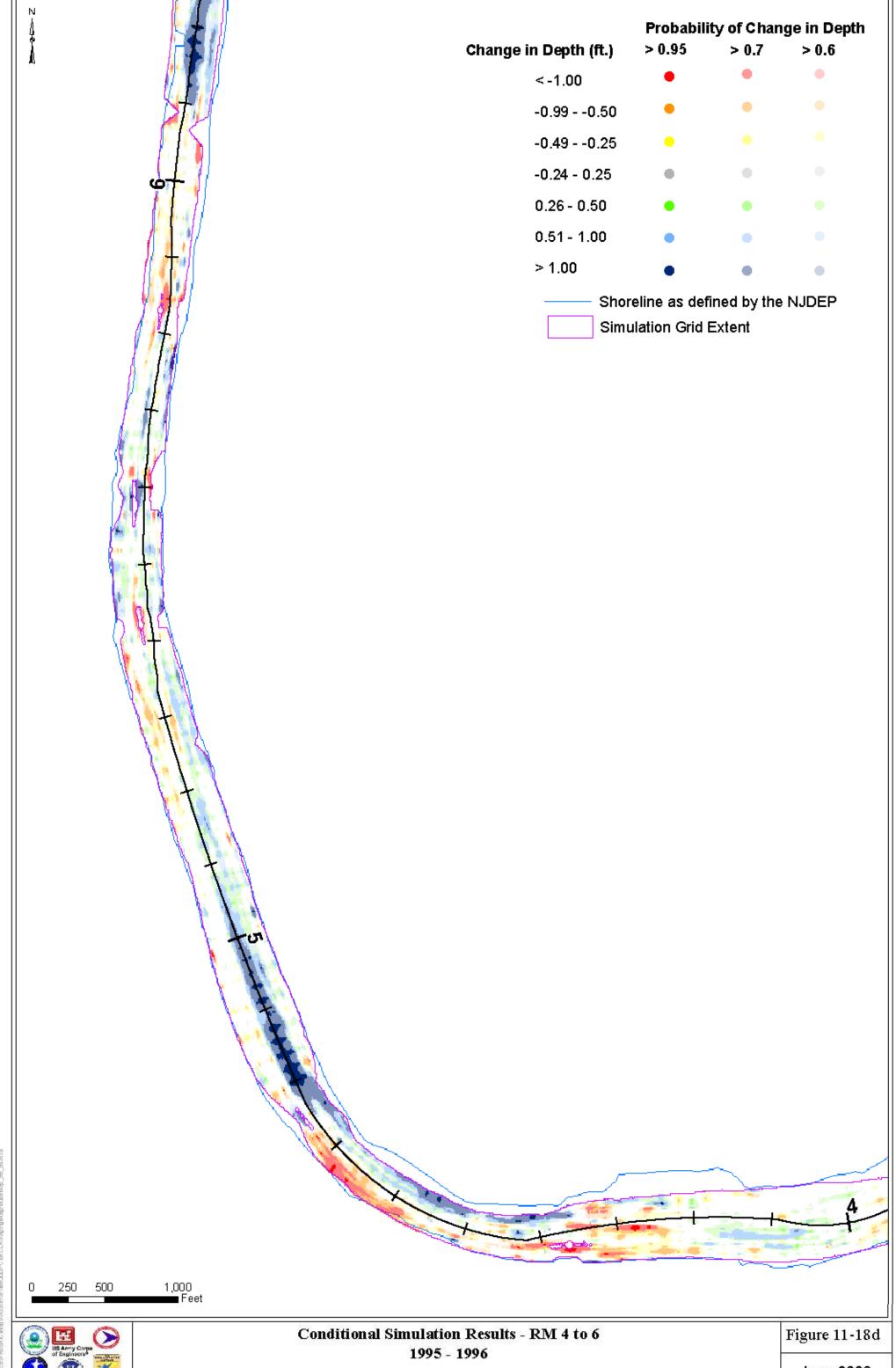


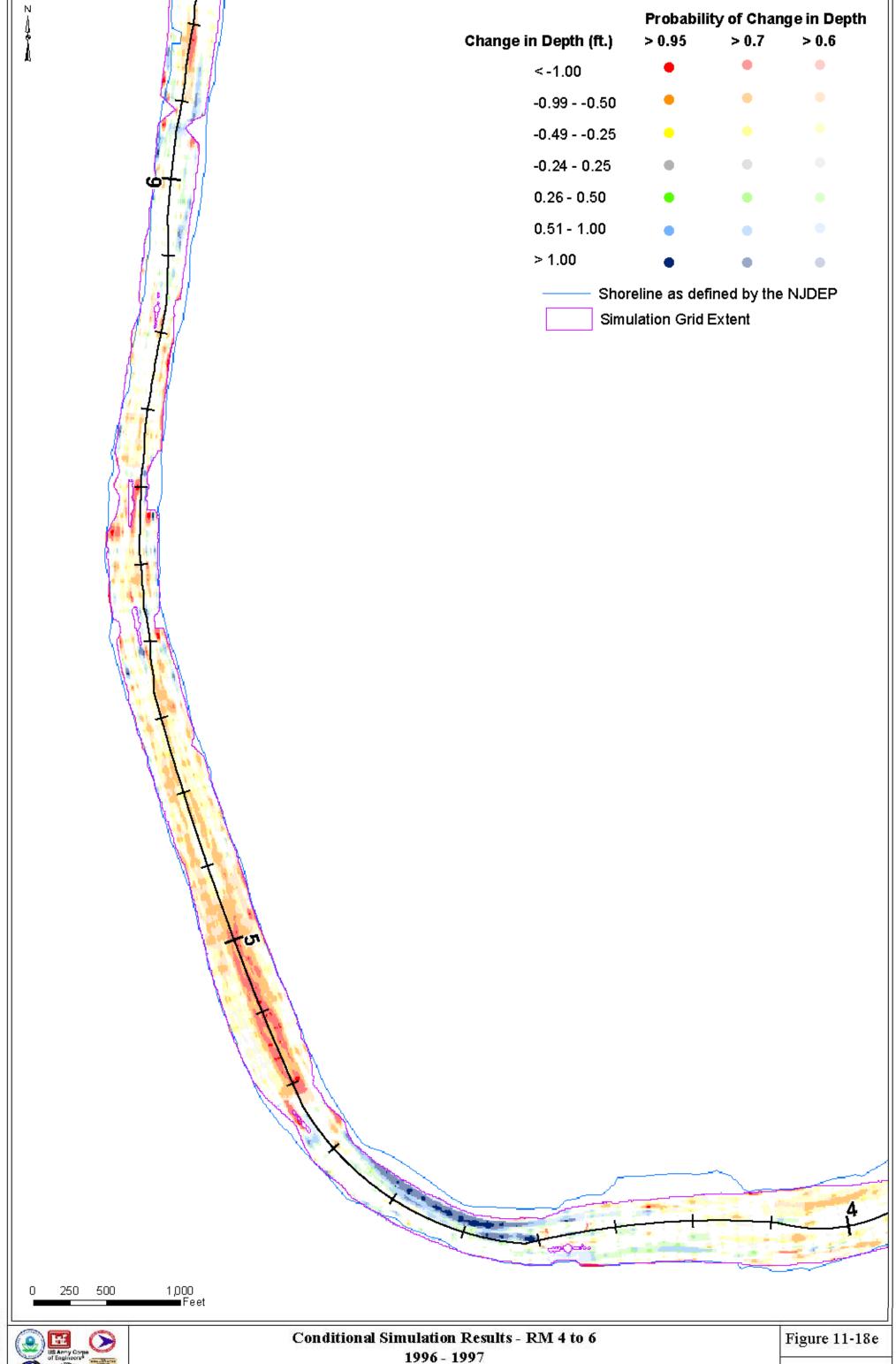
Lower Passaic River Restoration

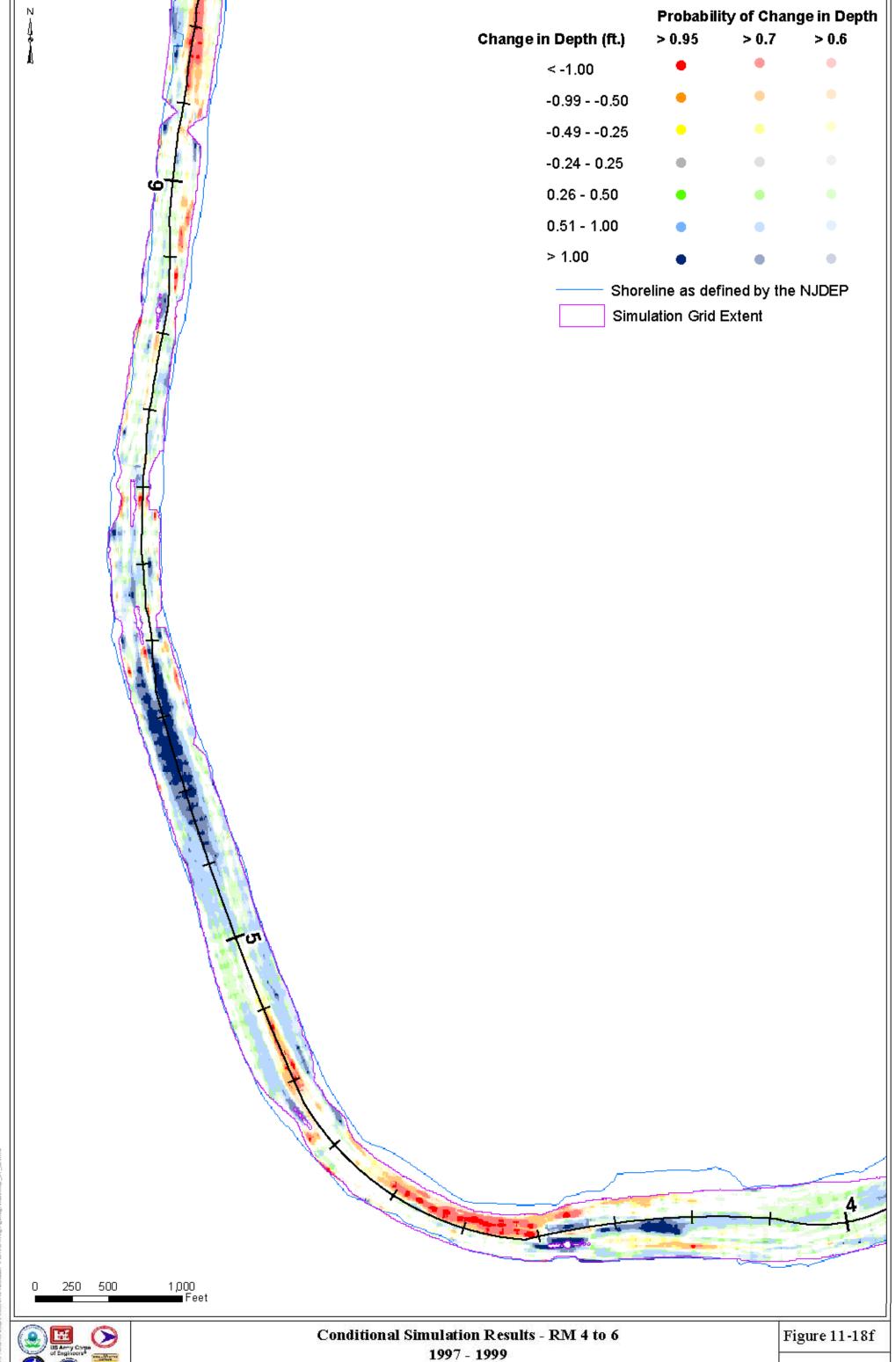


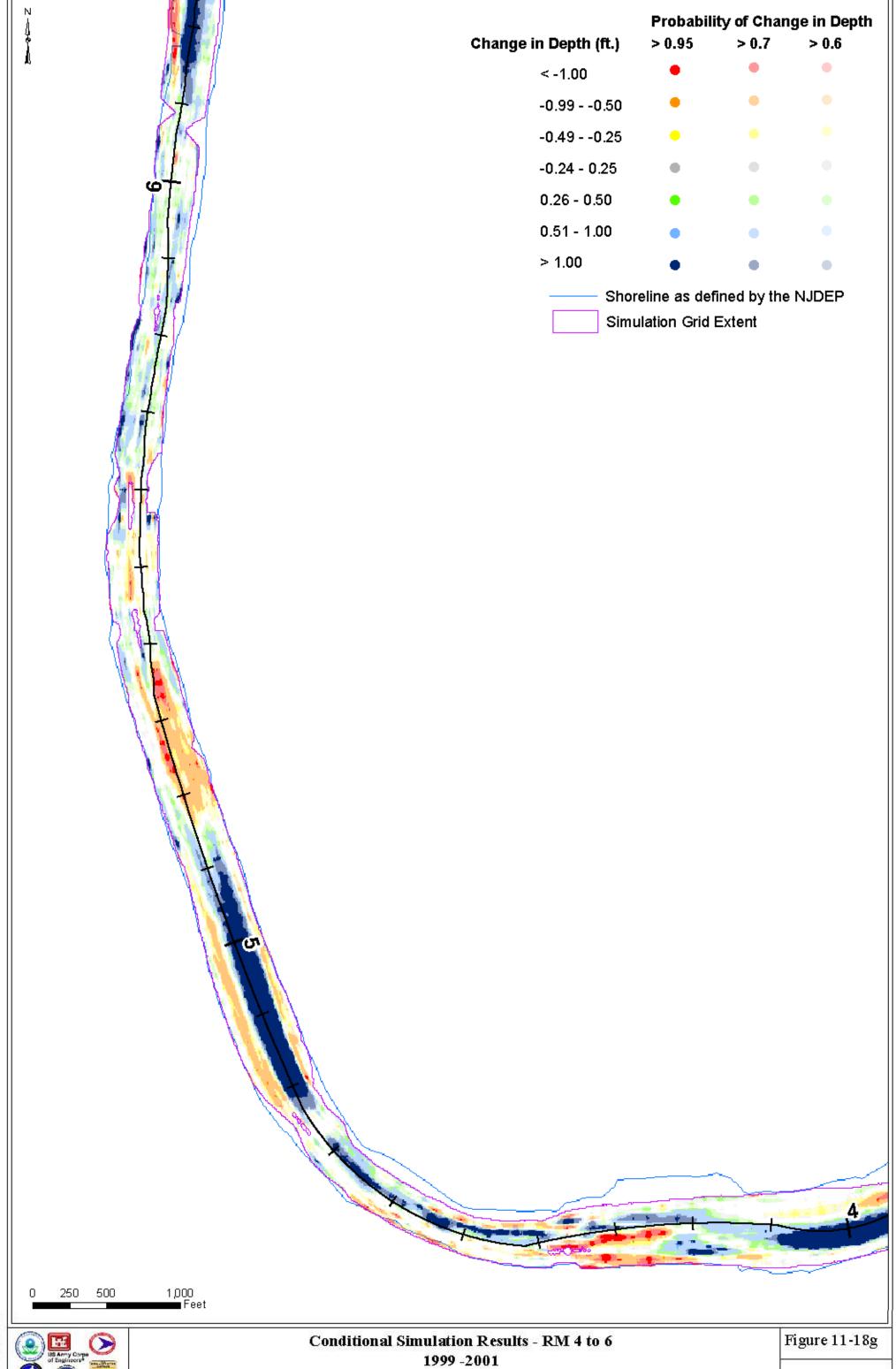


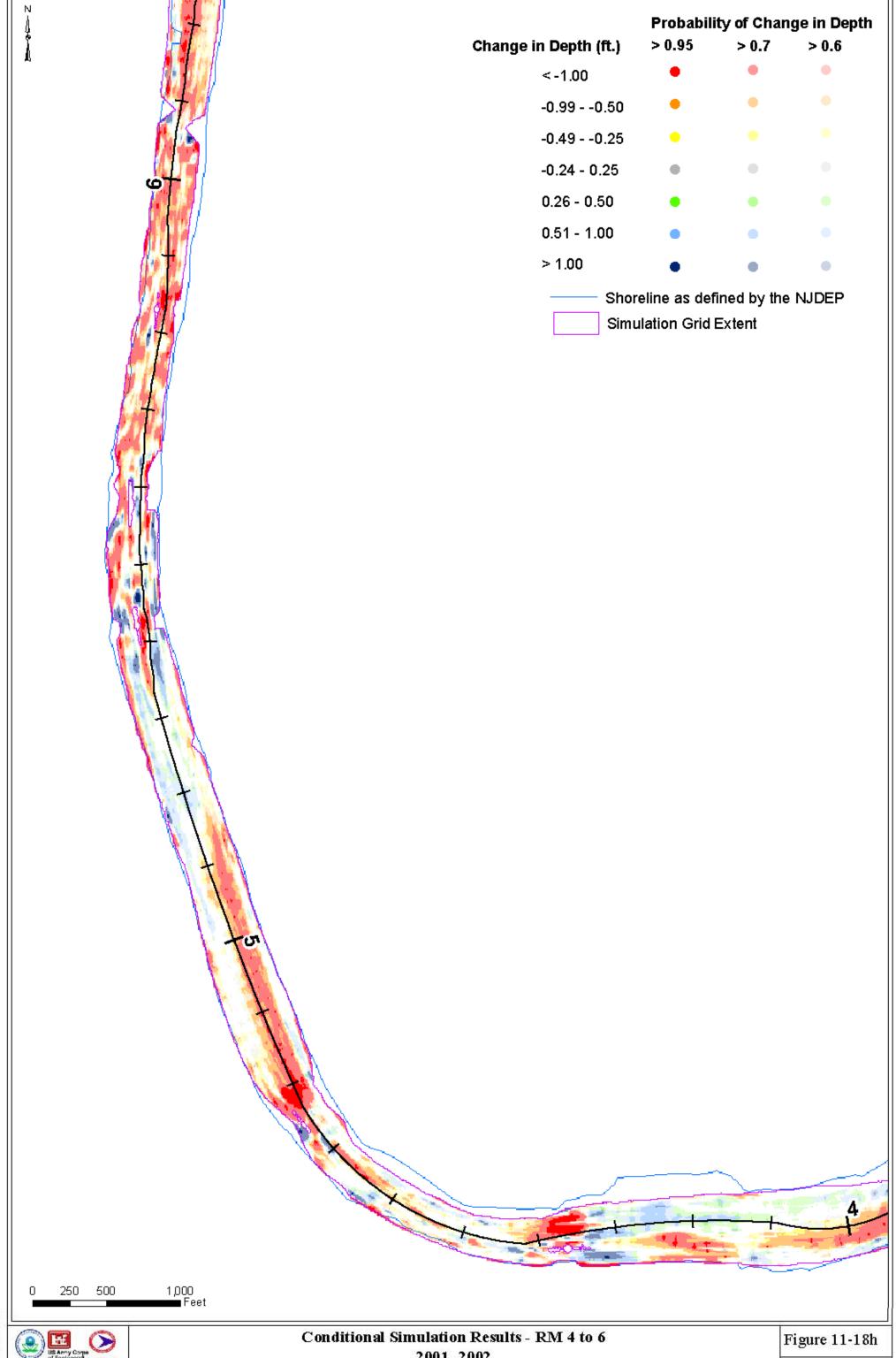


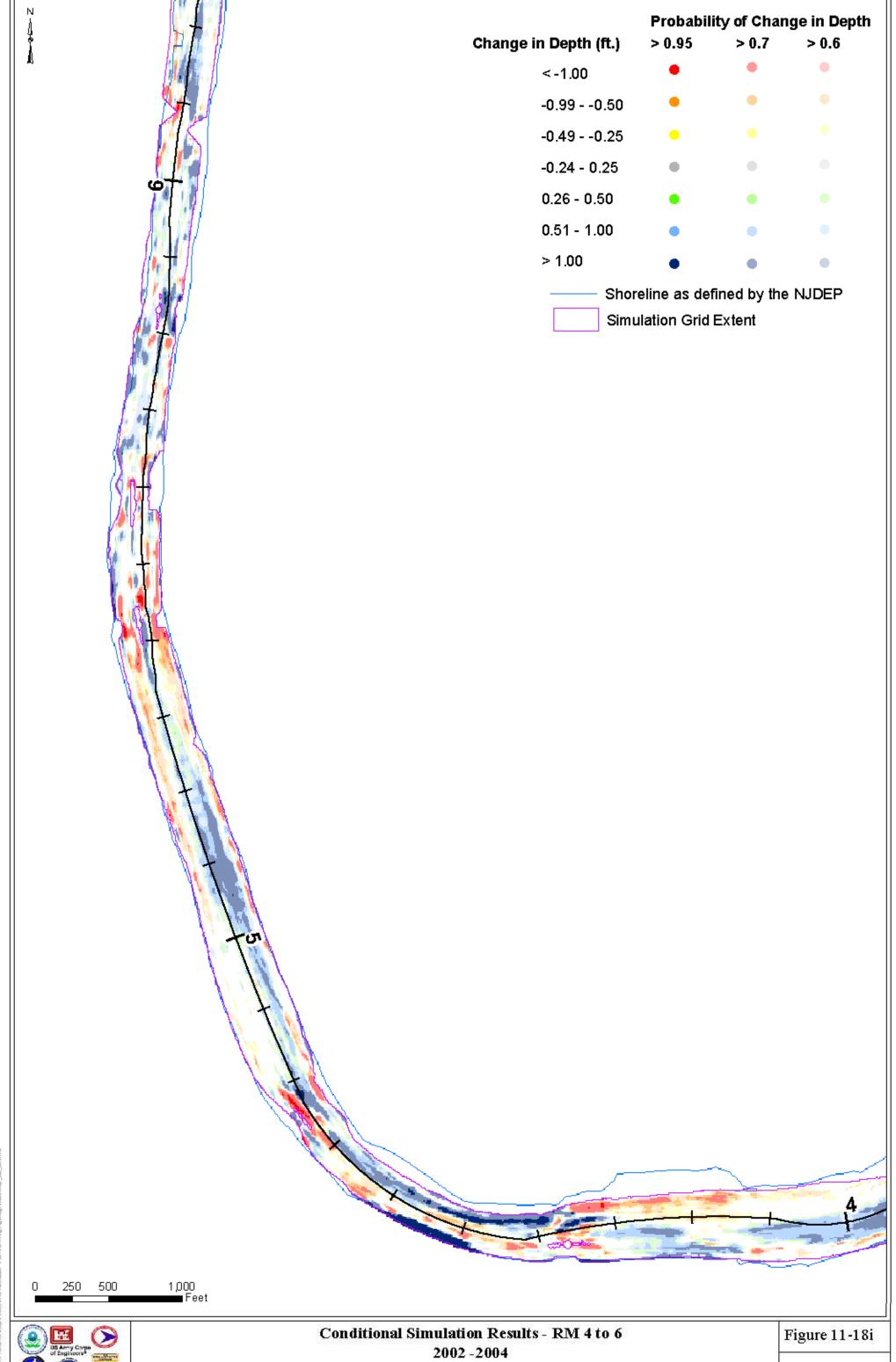


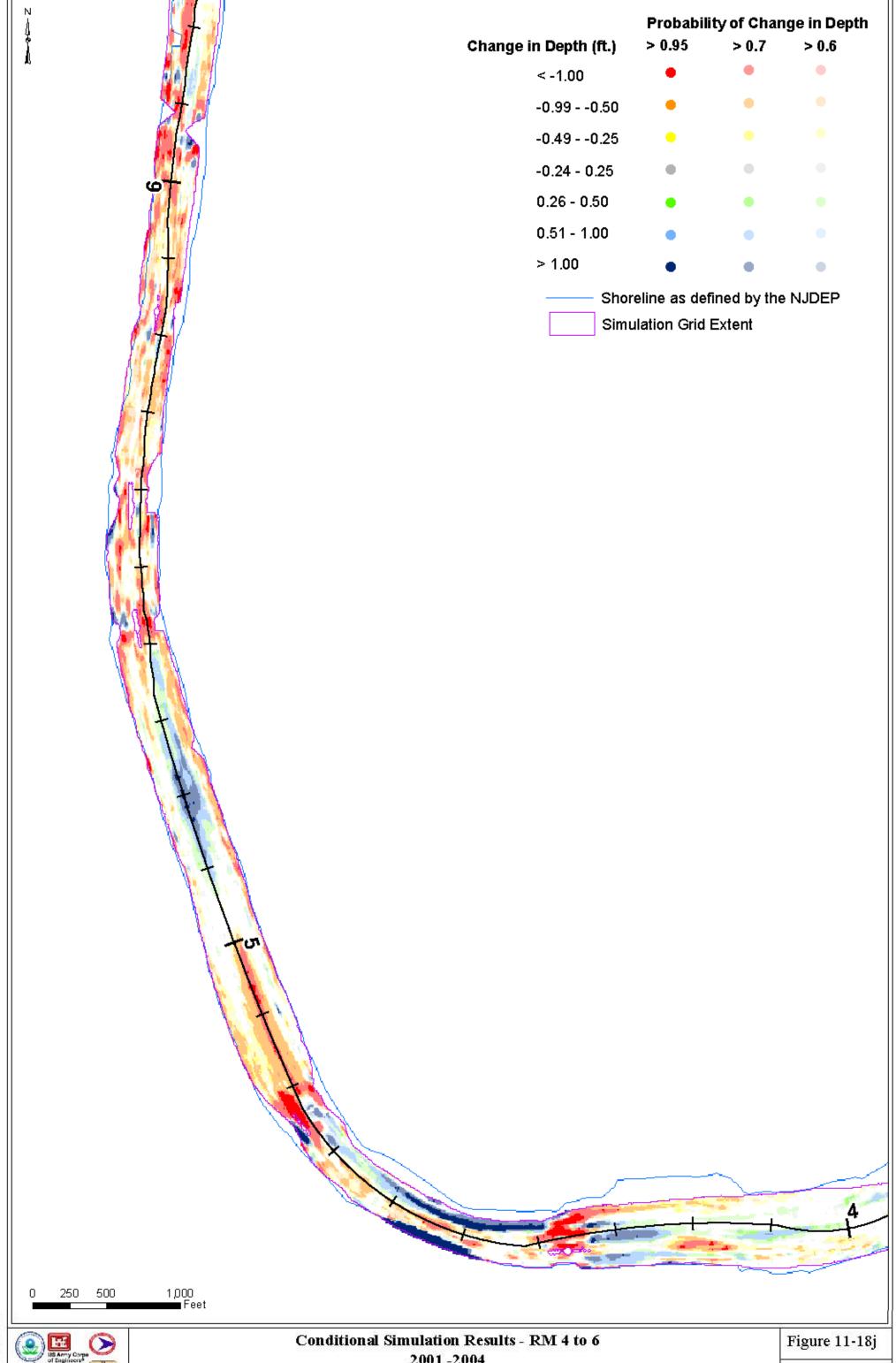


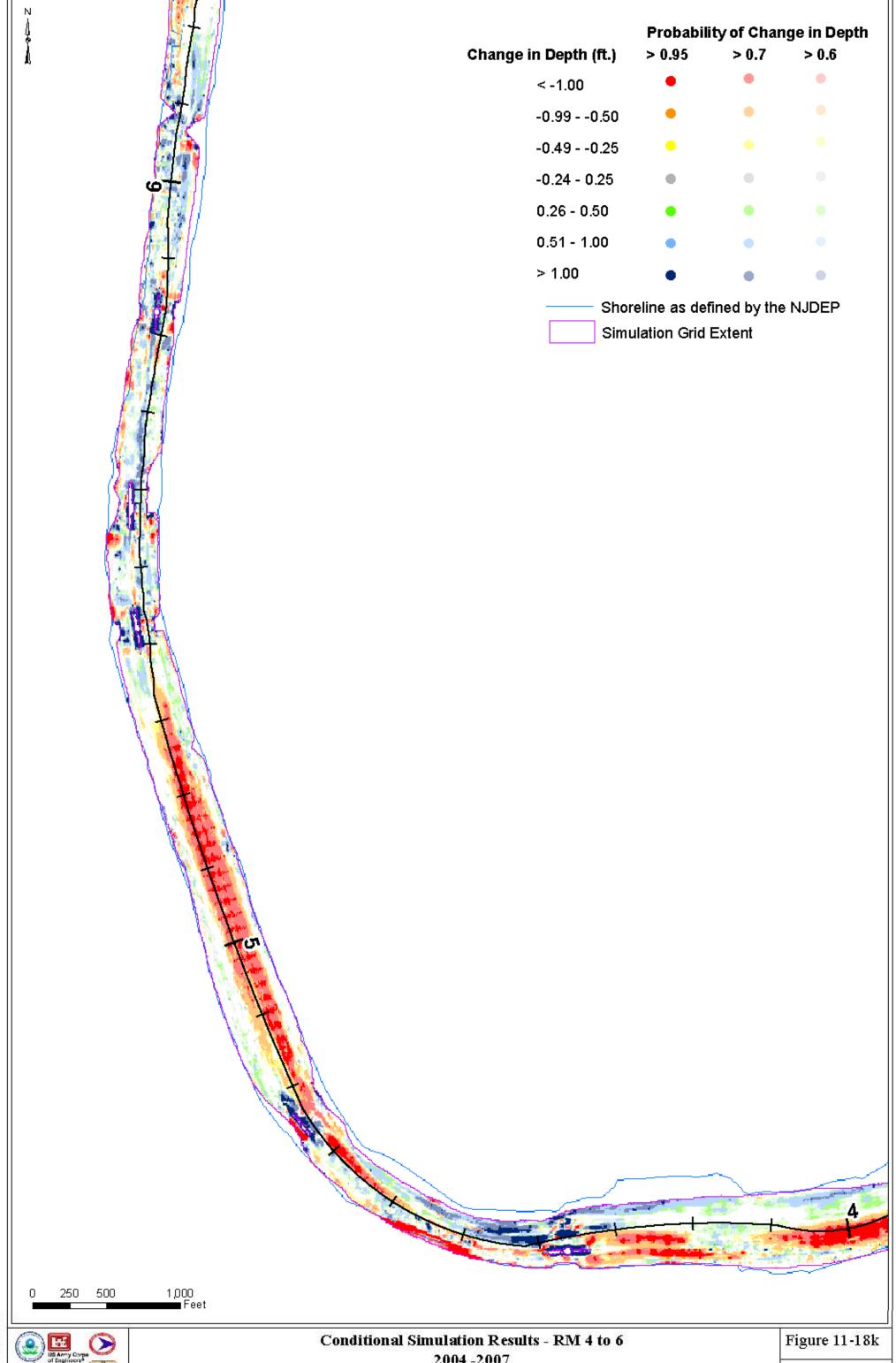




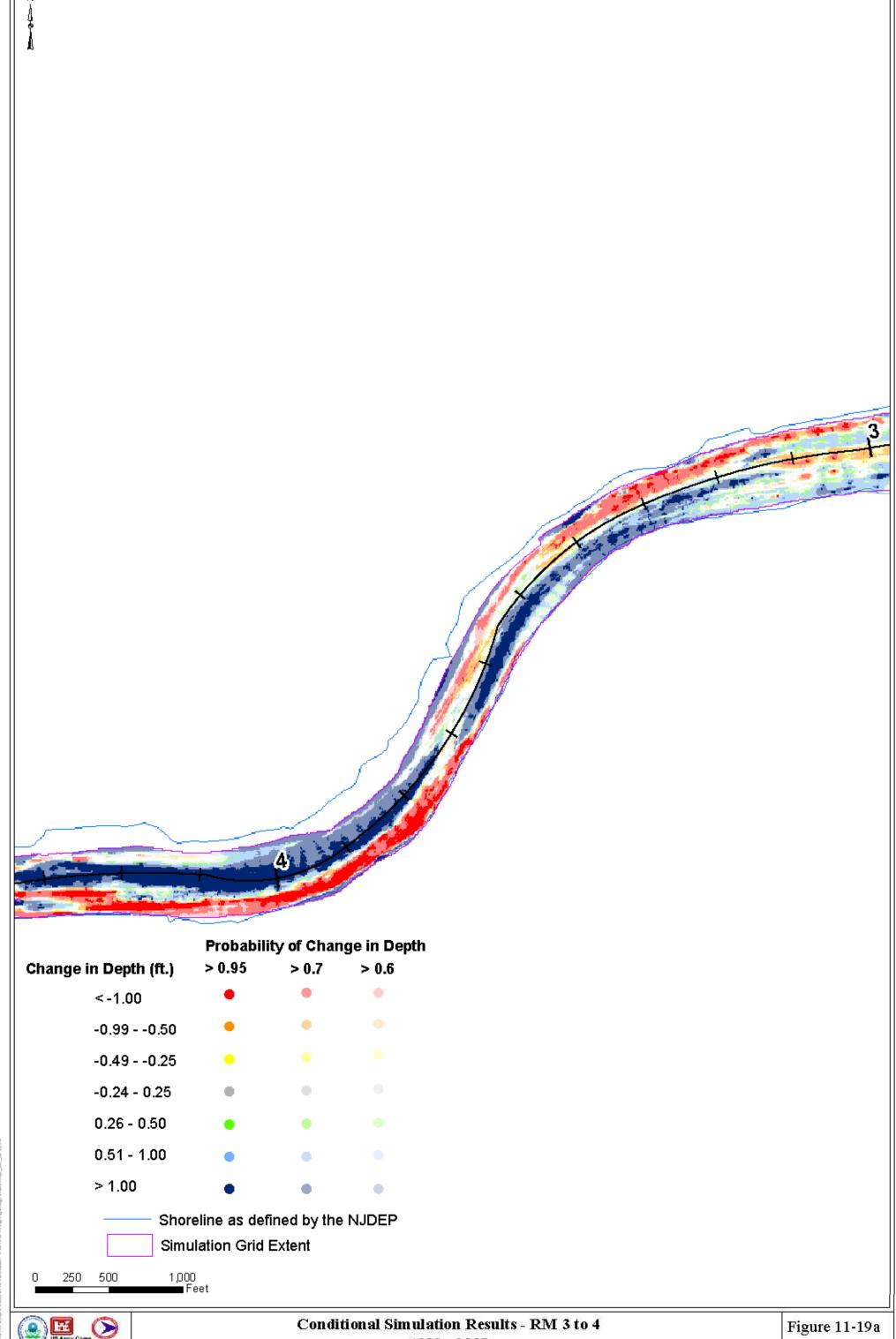




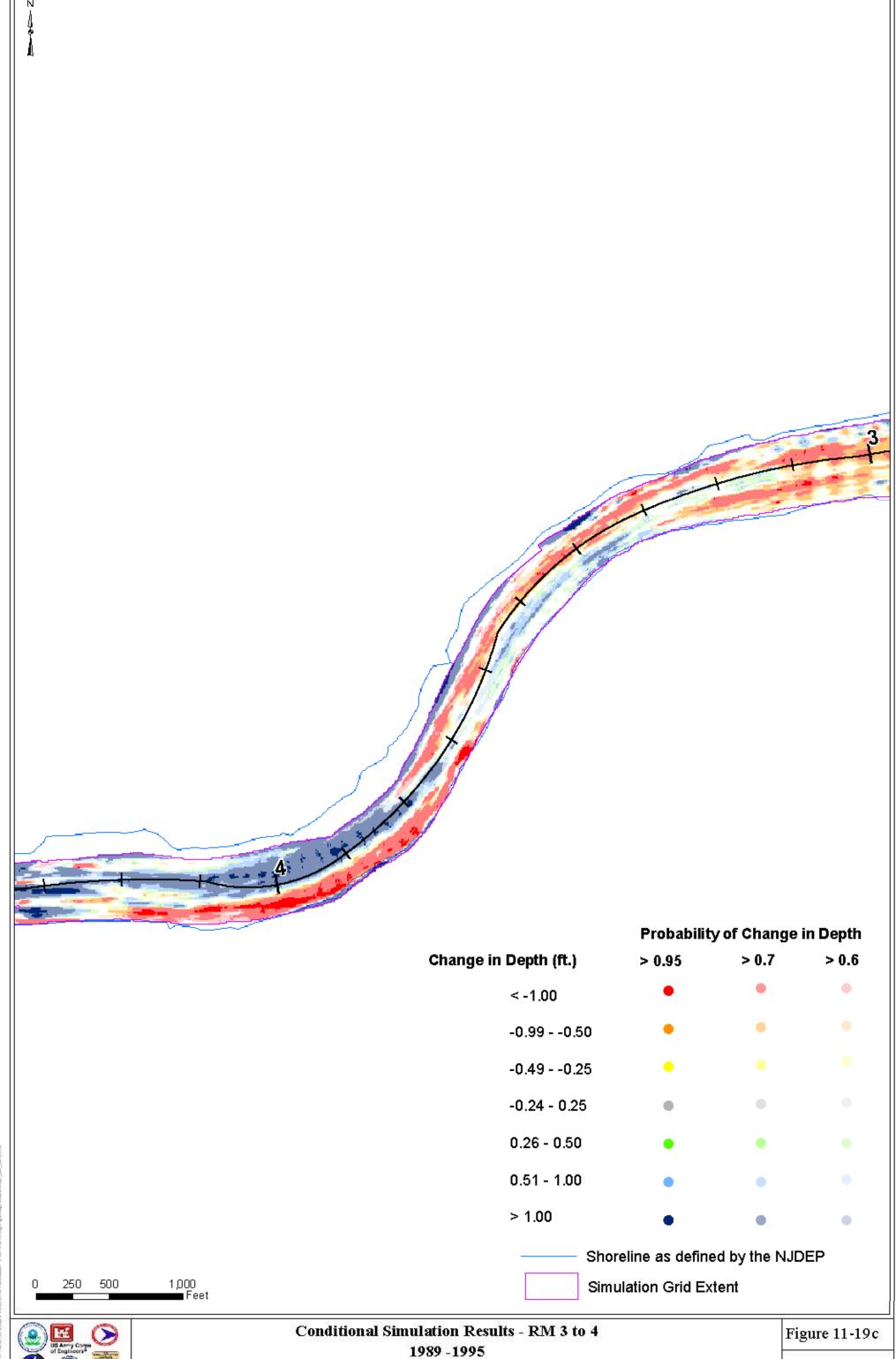


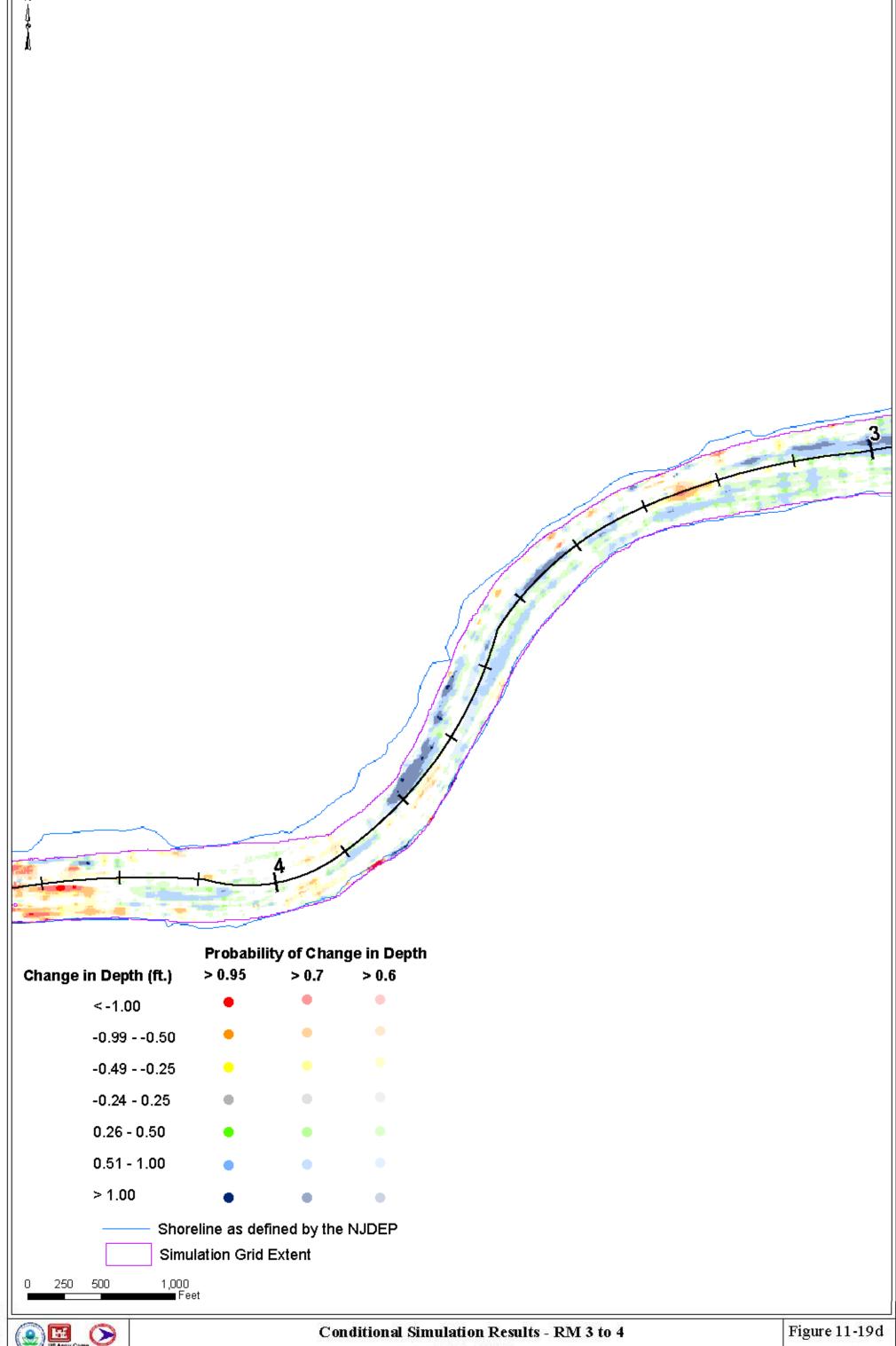


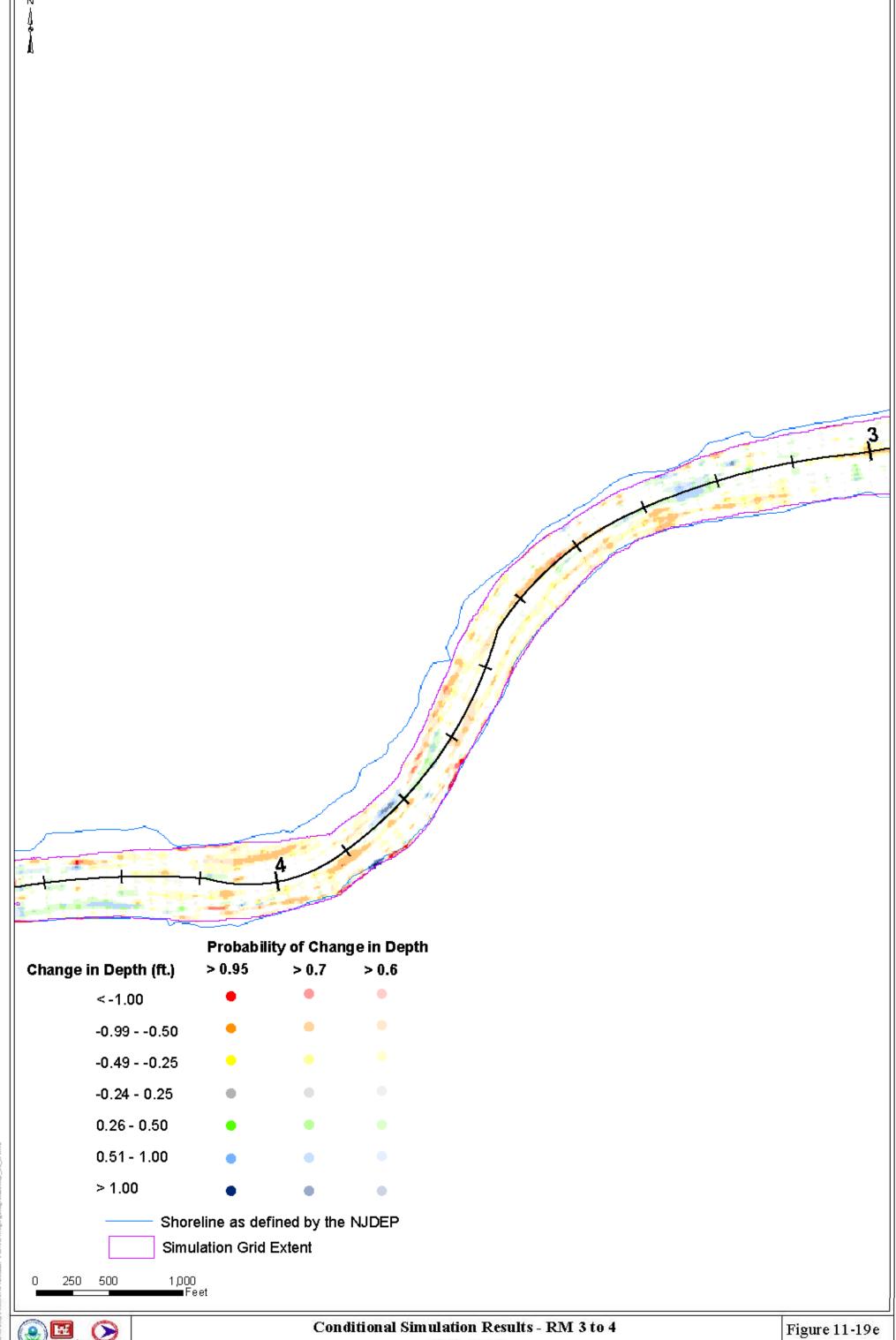
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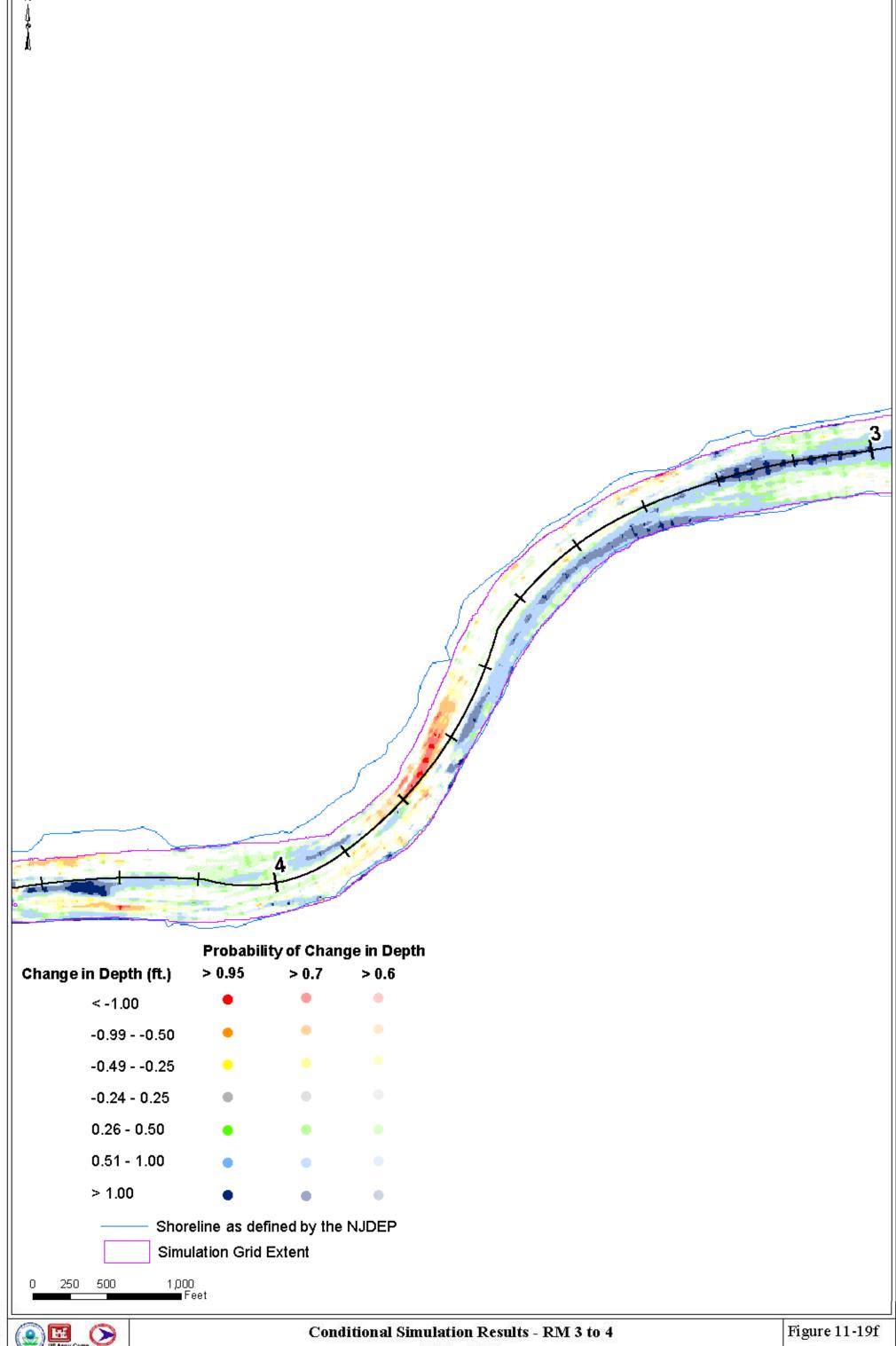




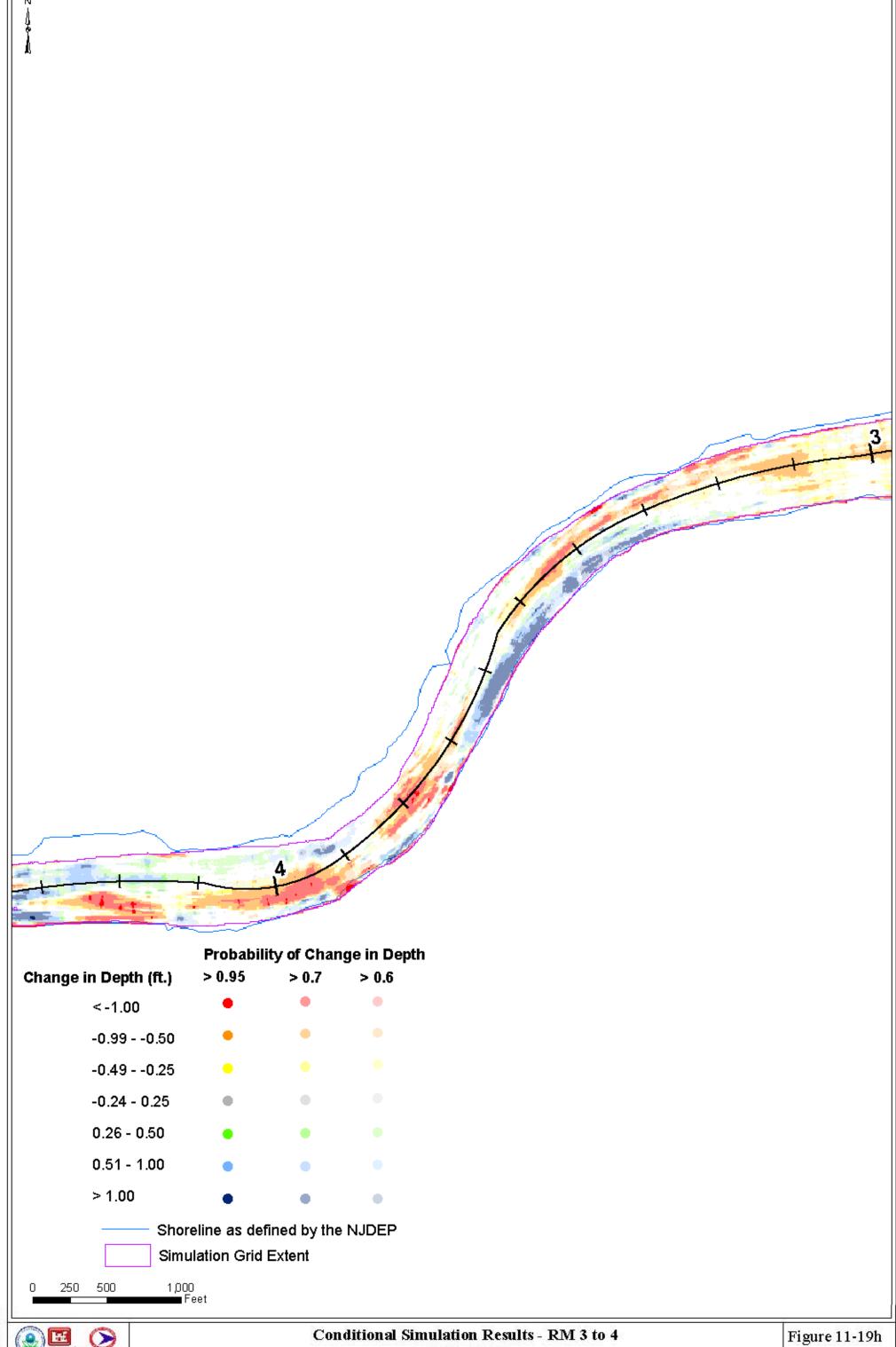












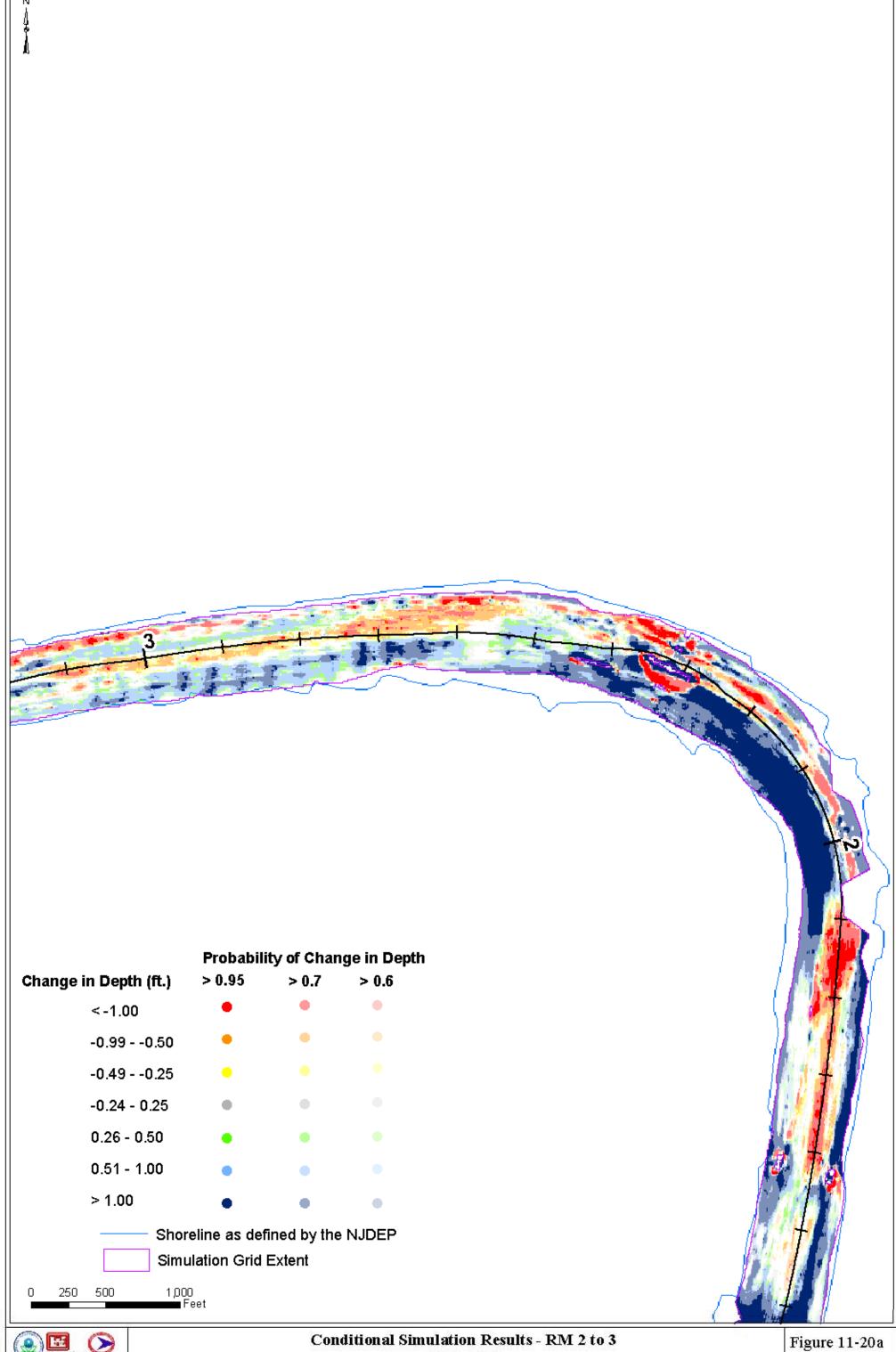


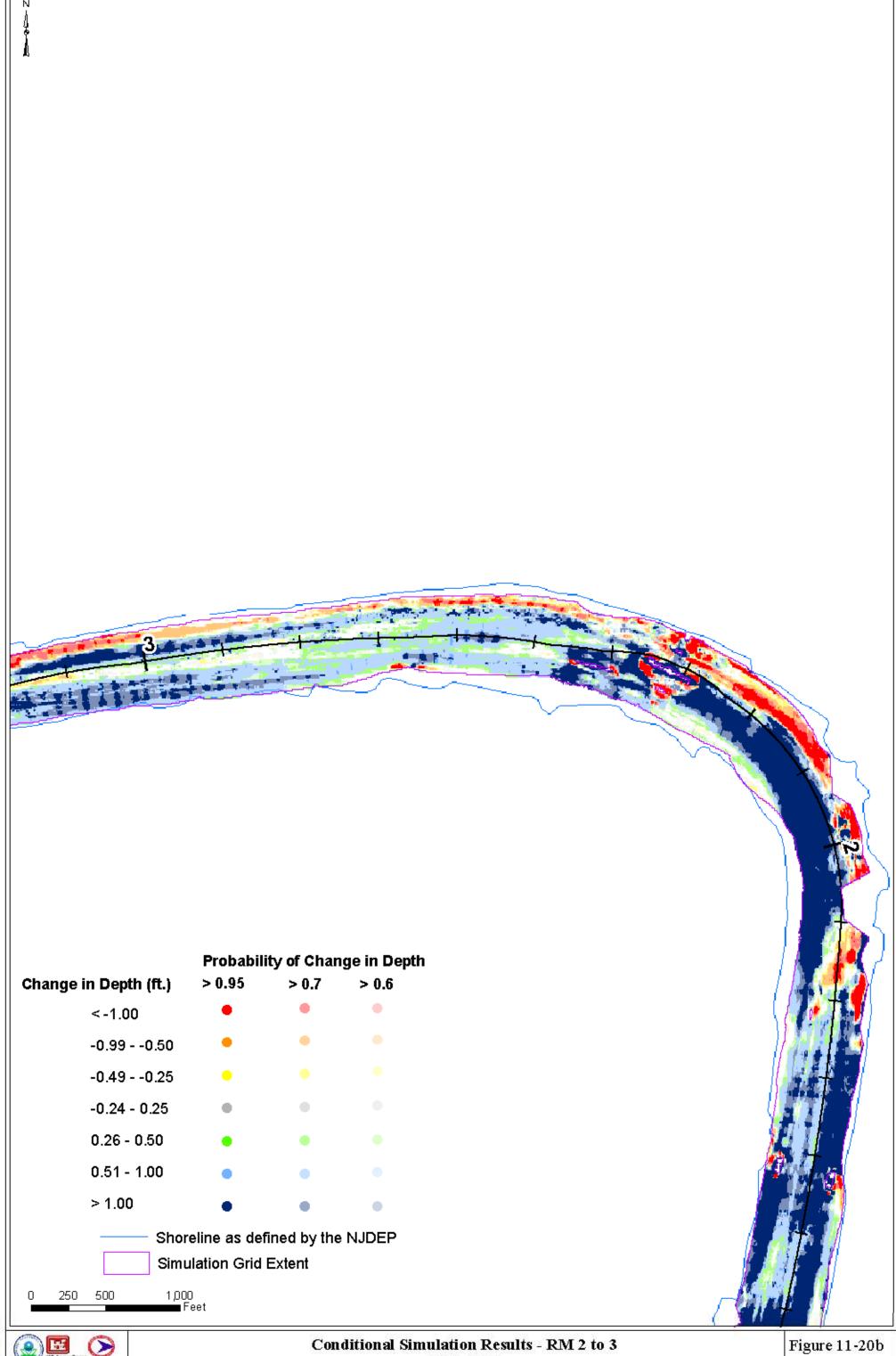


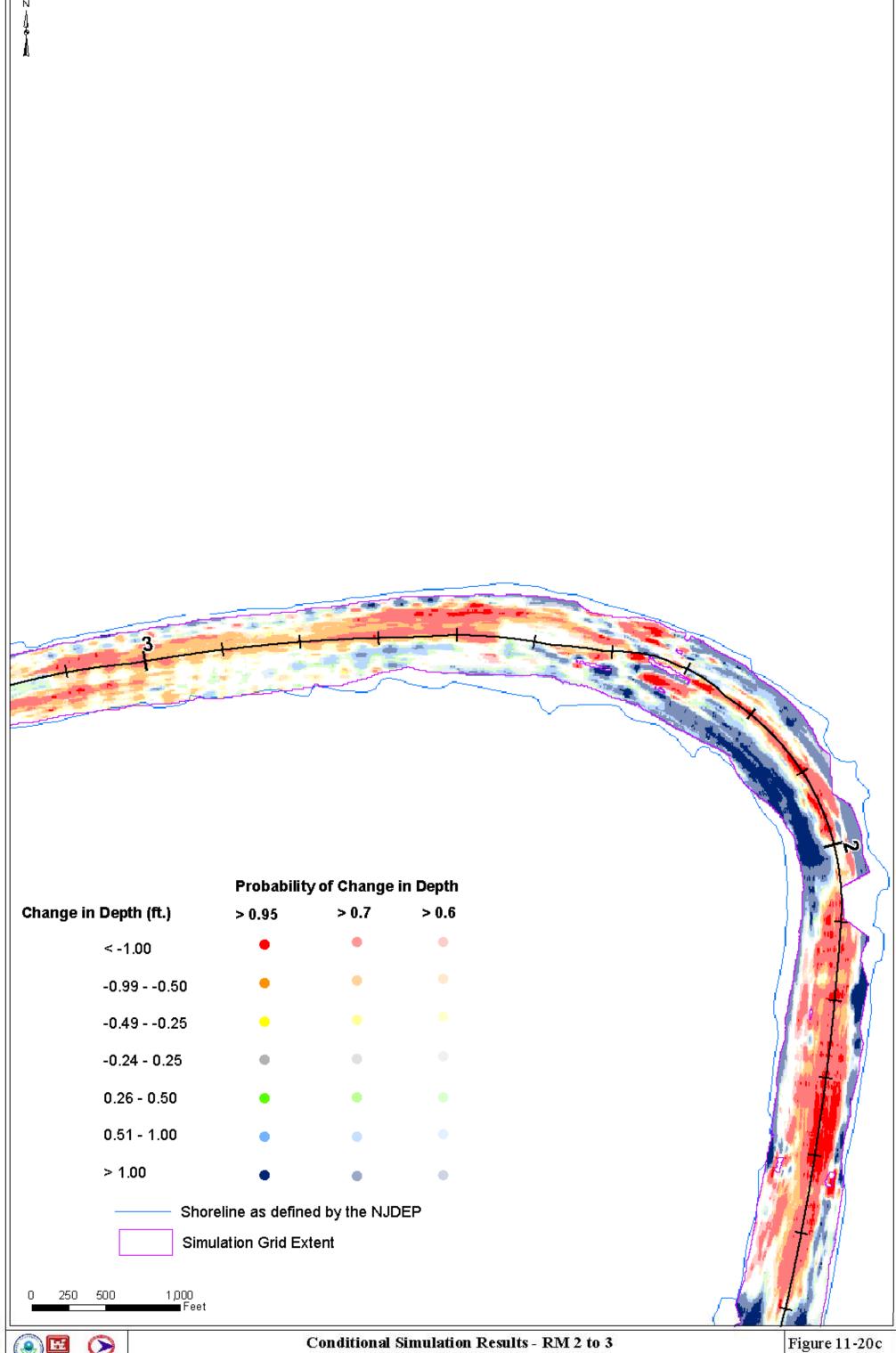
2002 - 2004

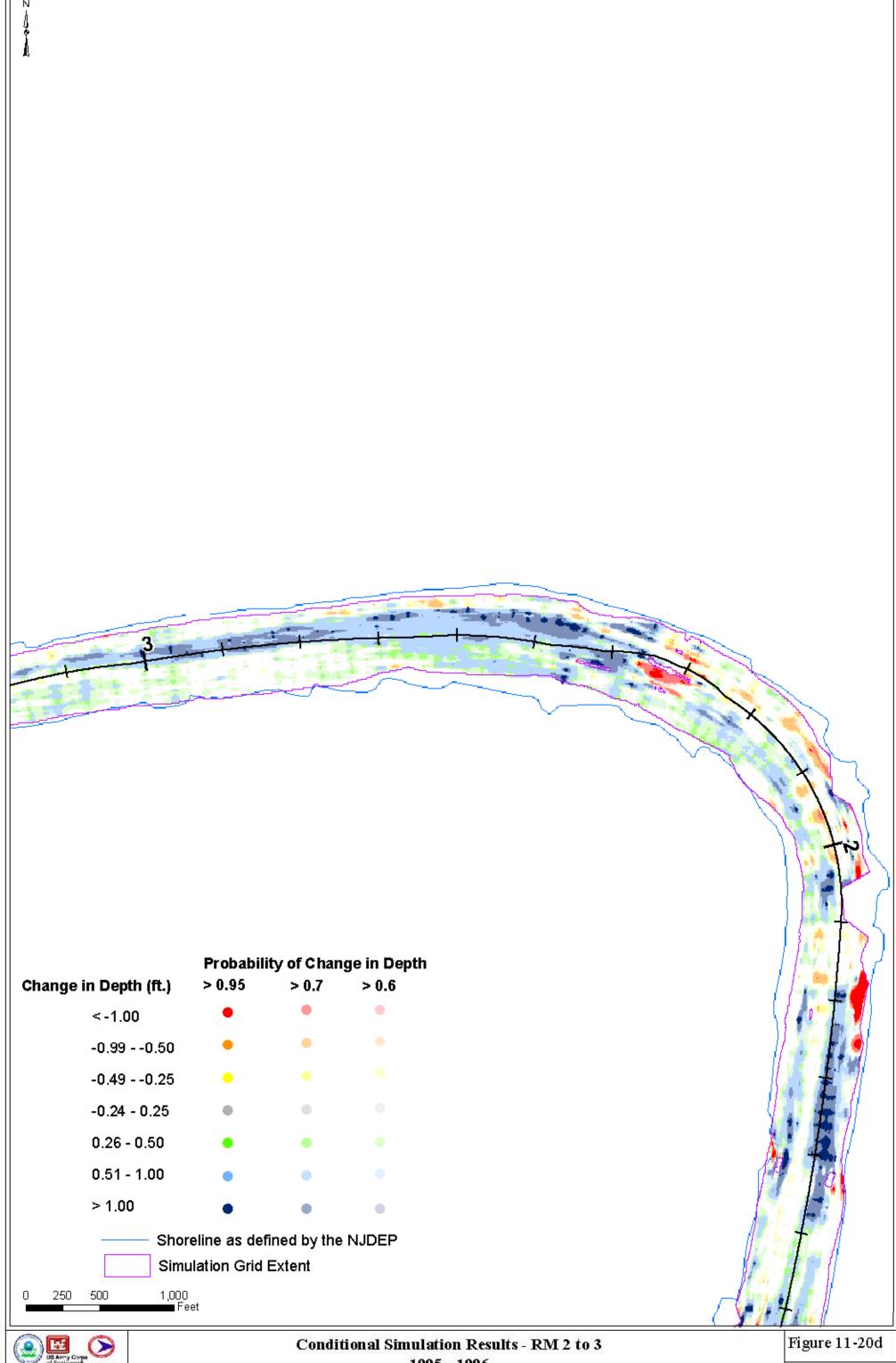


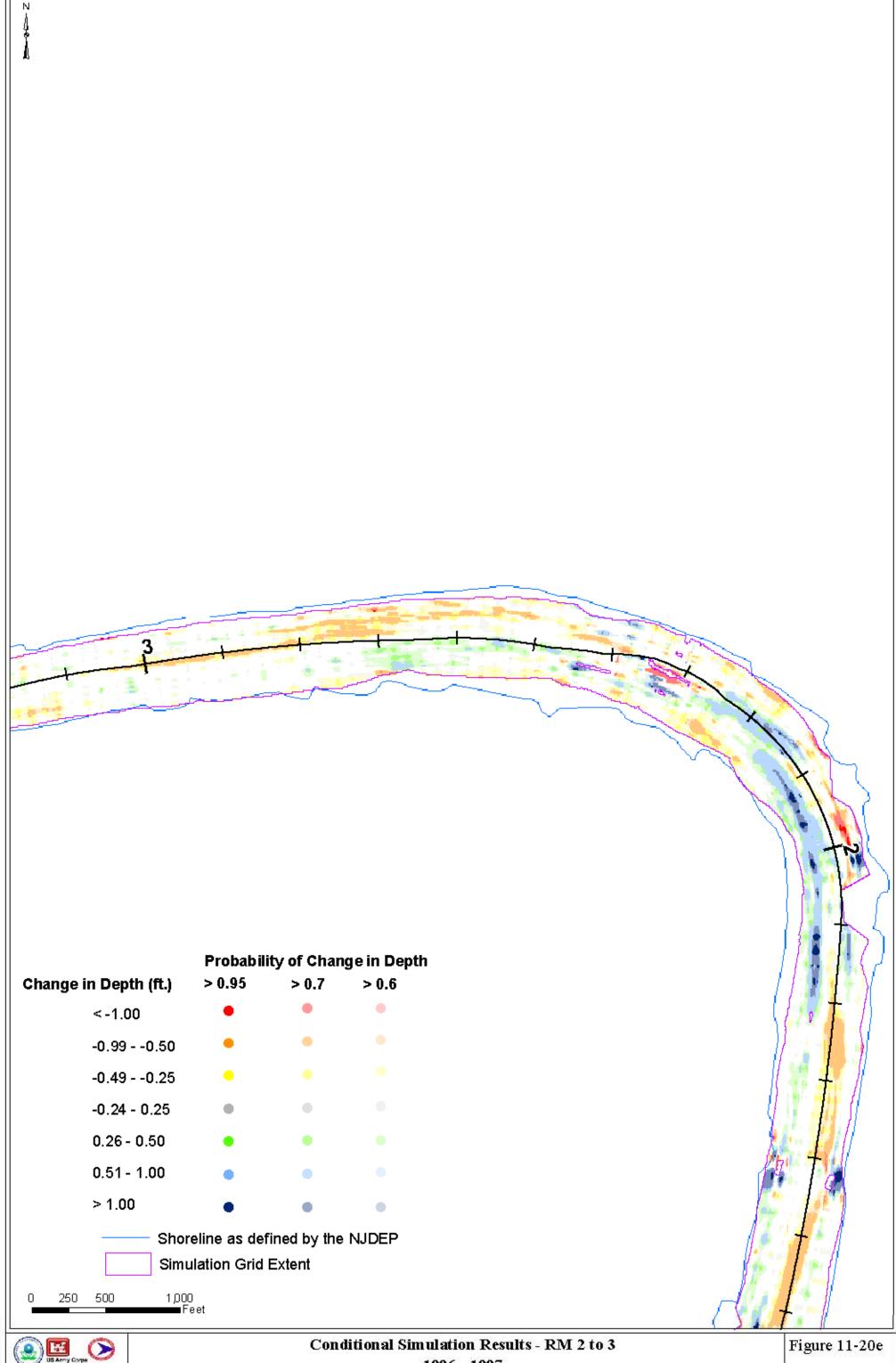




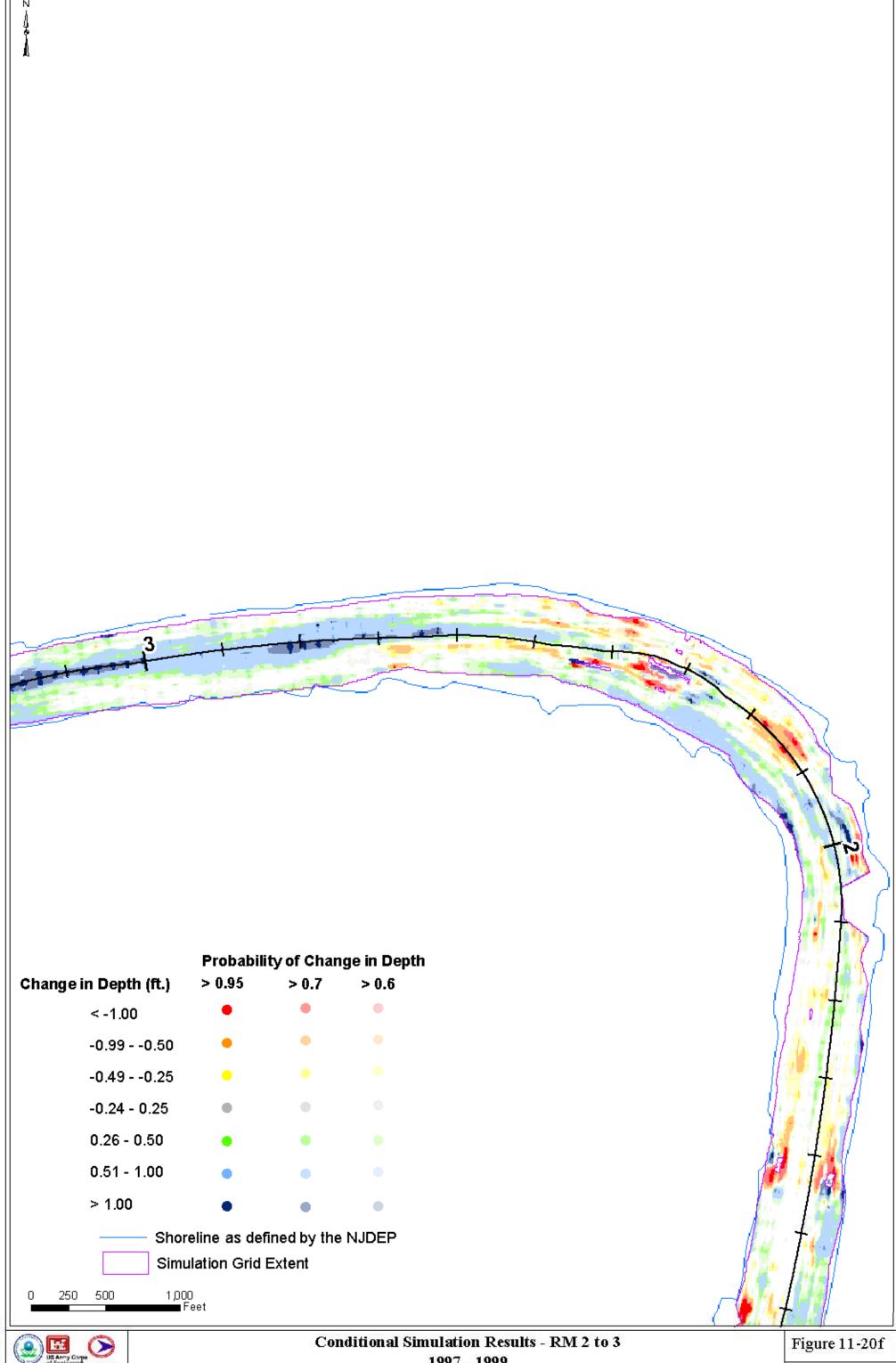


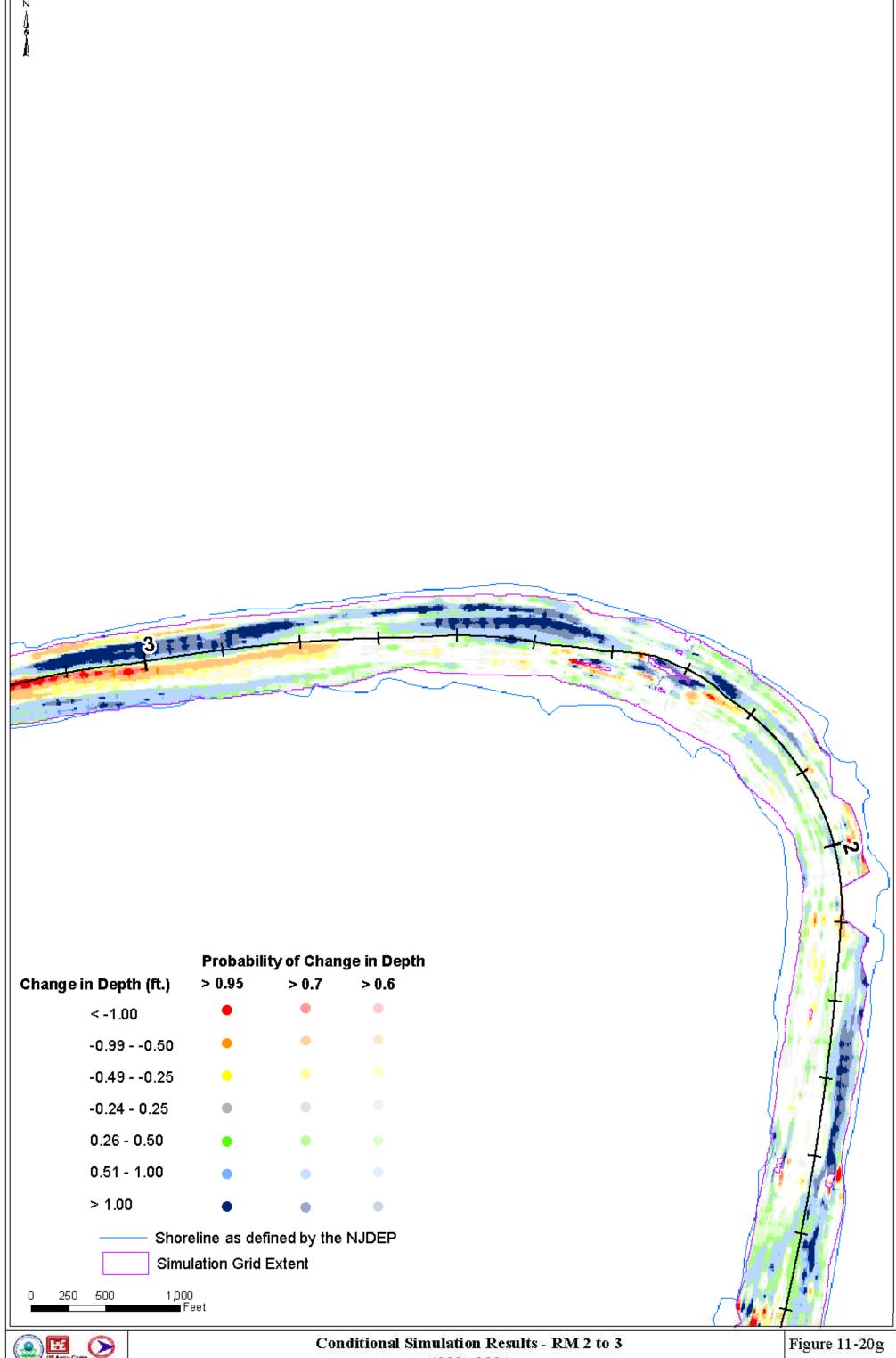


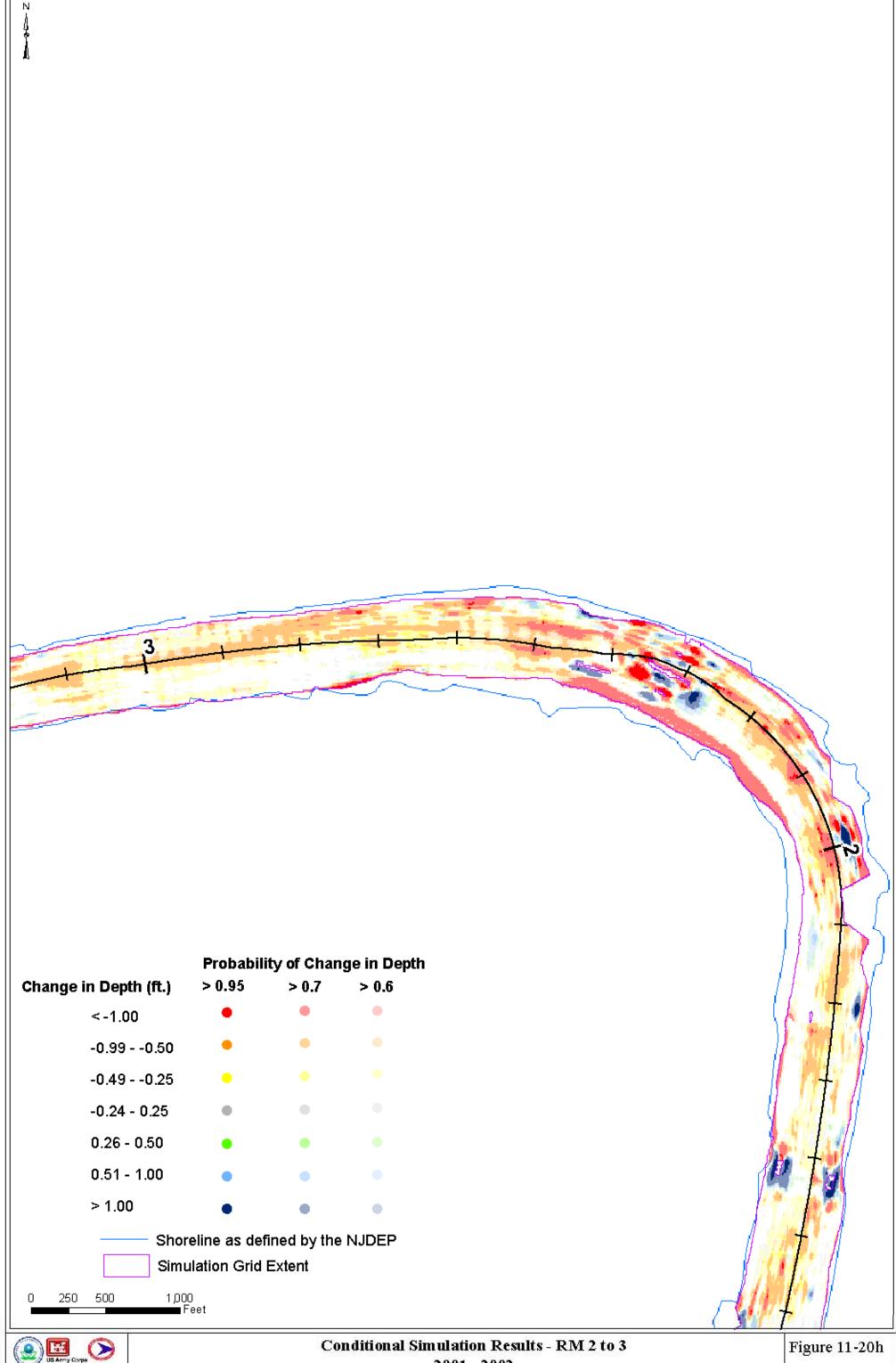


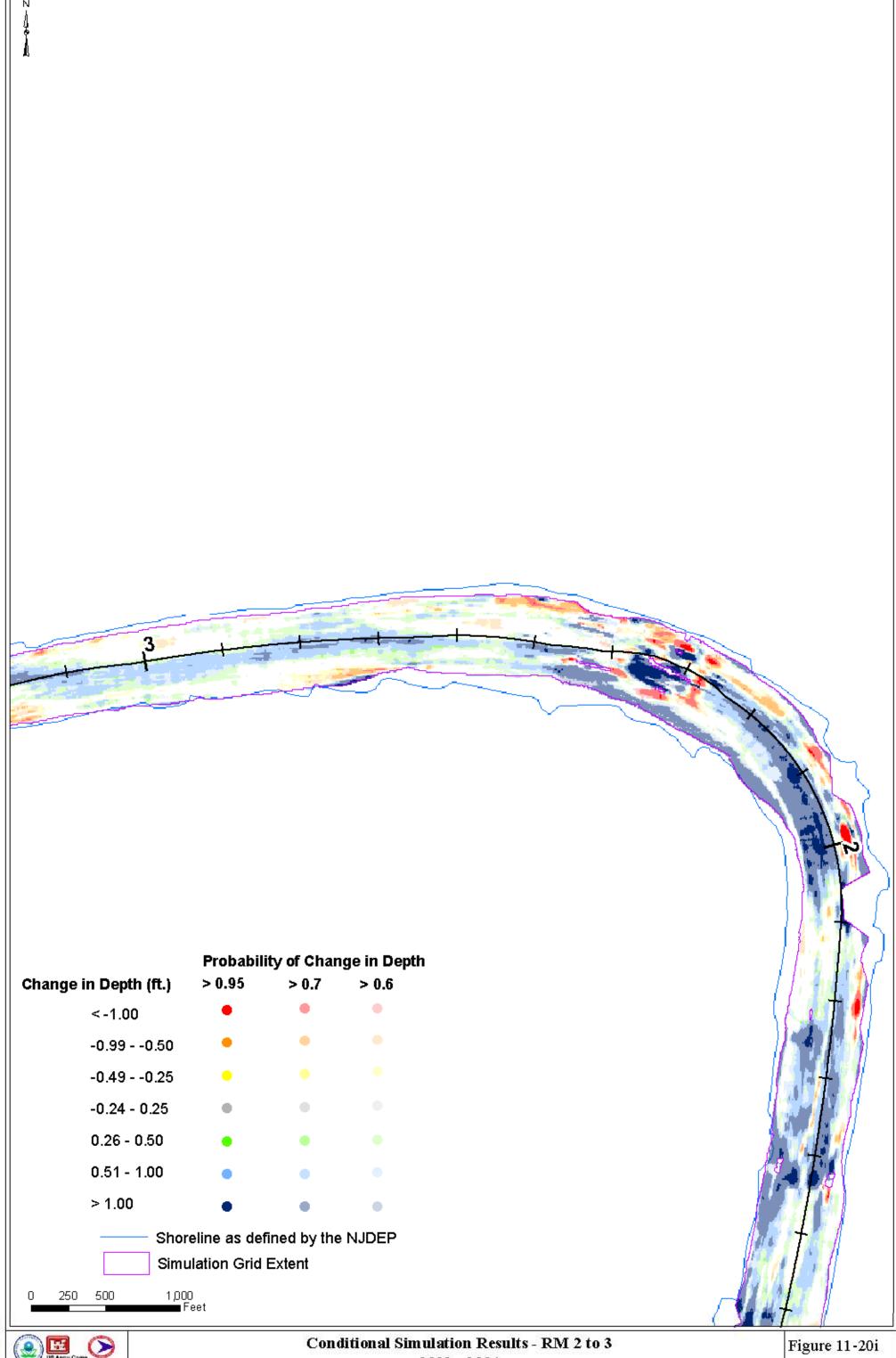


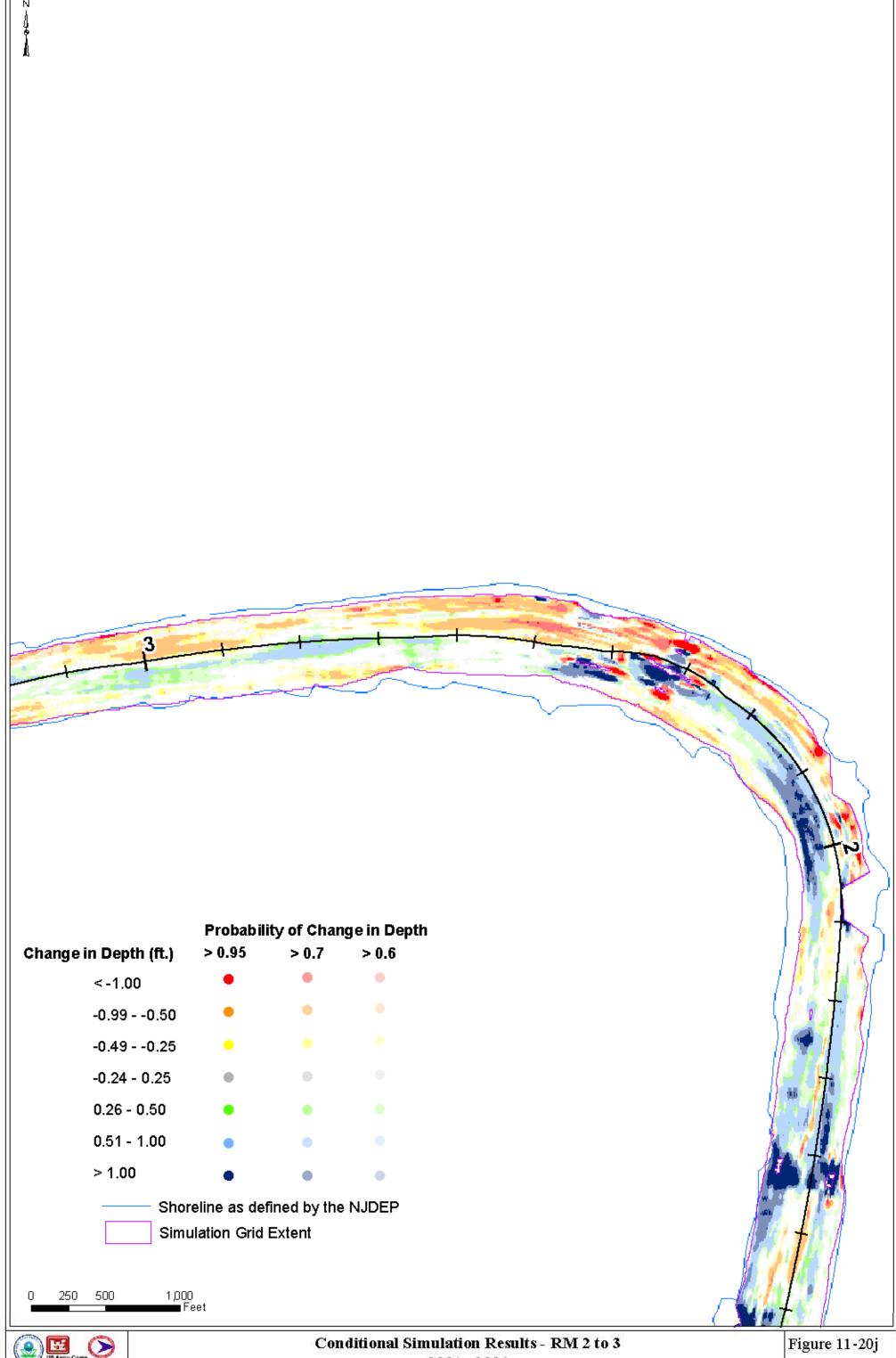


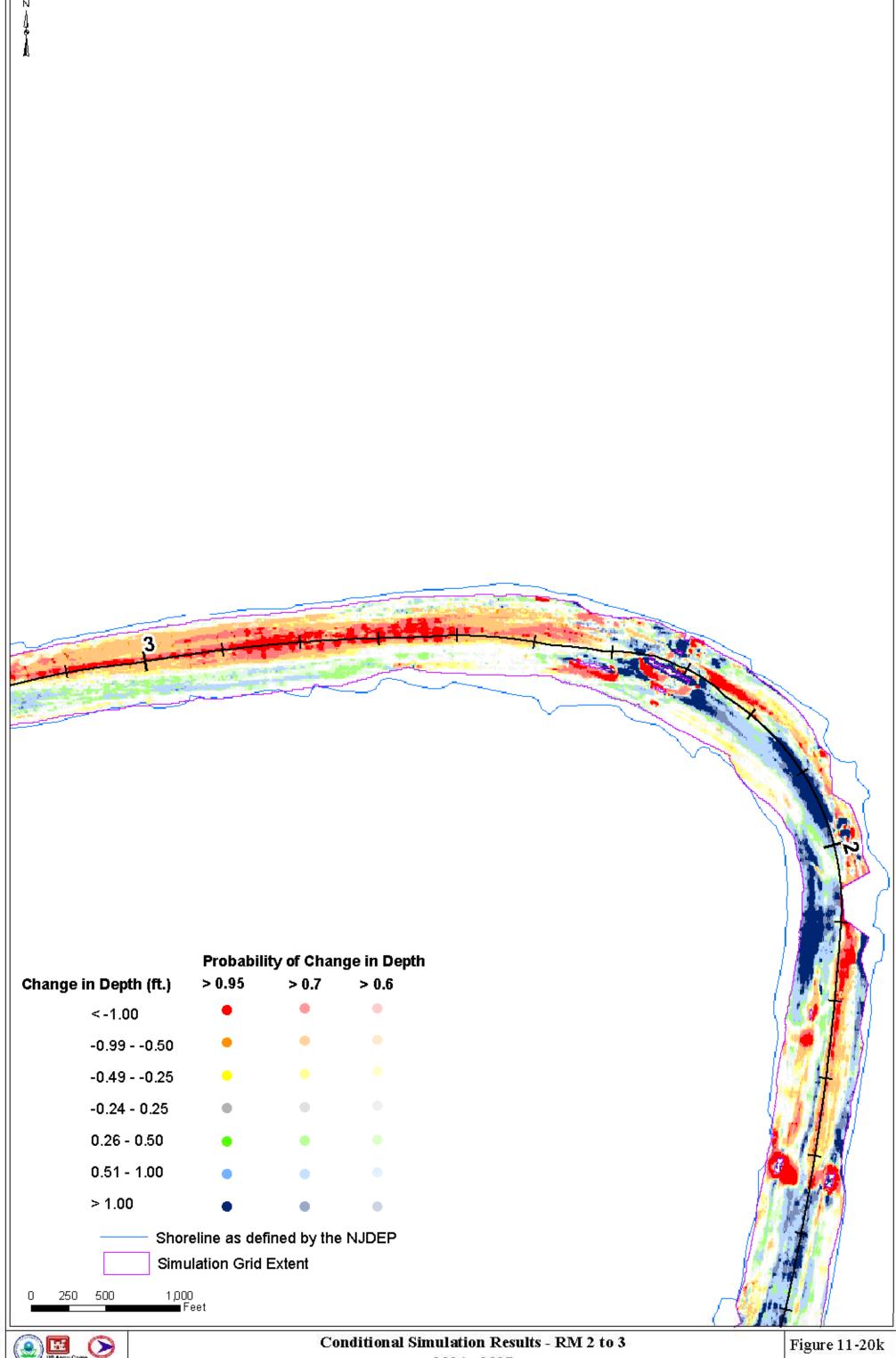


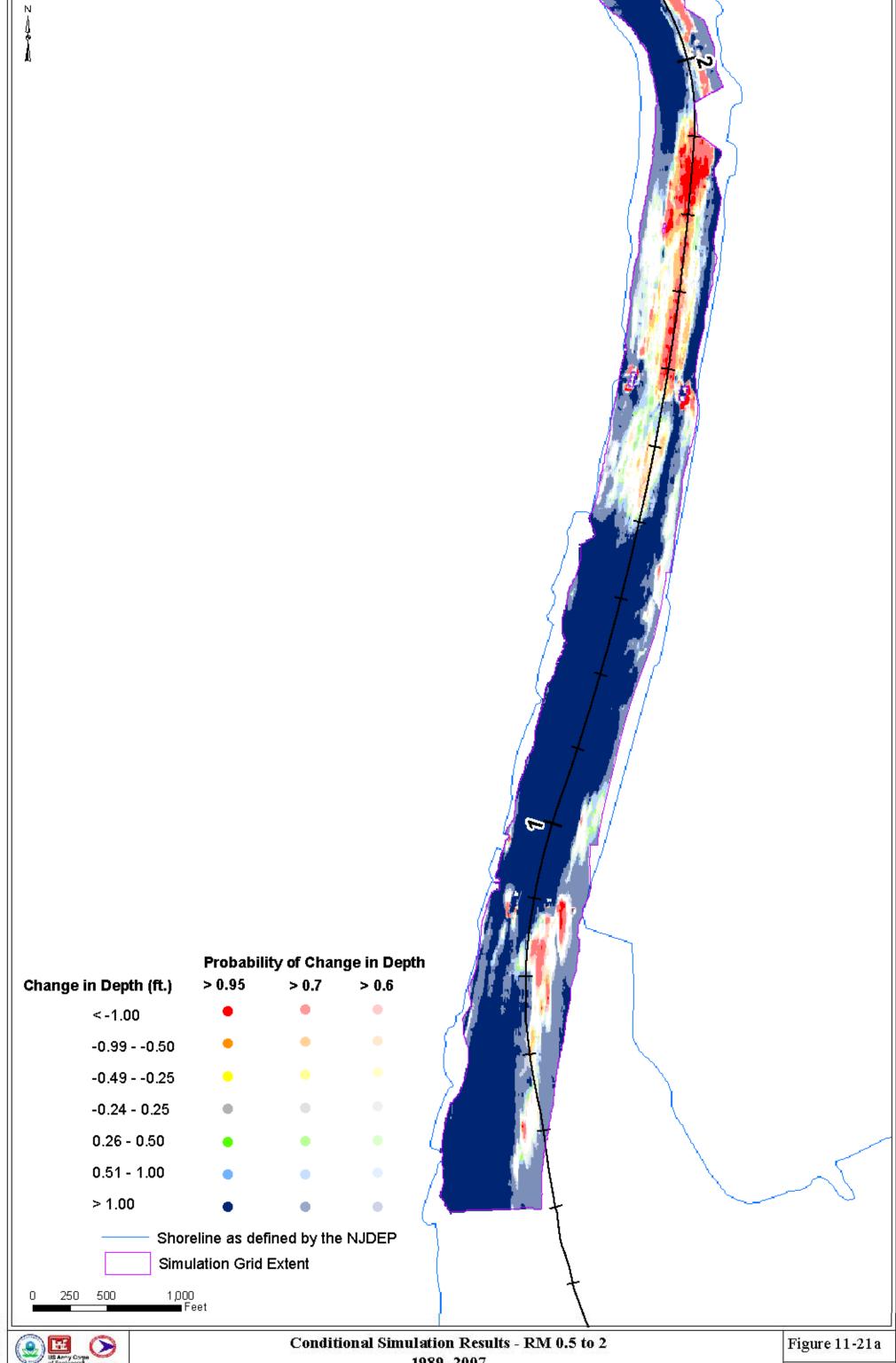


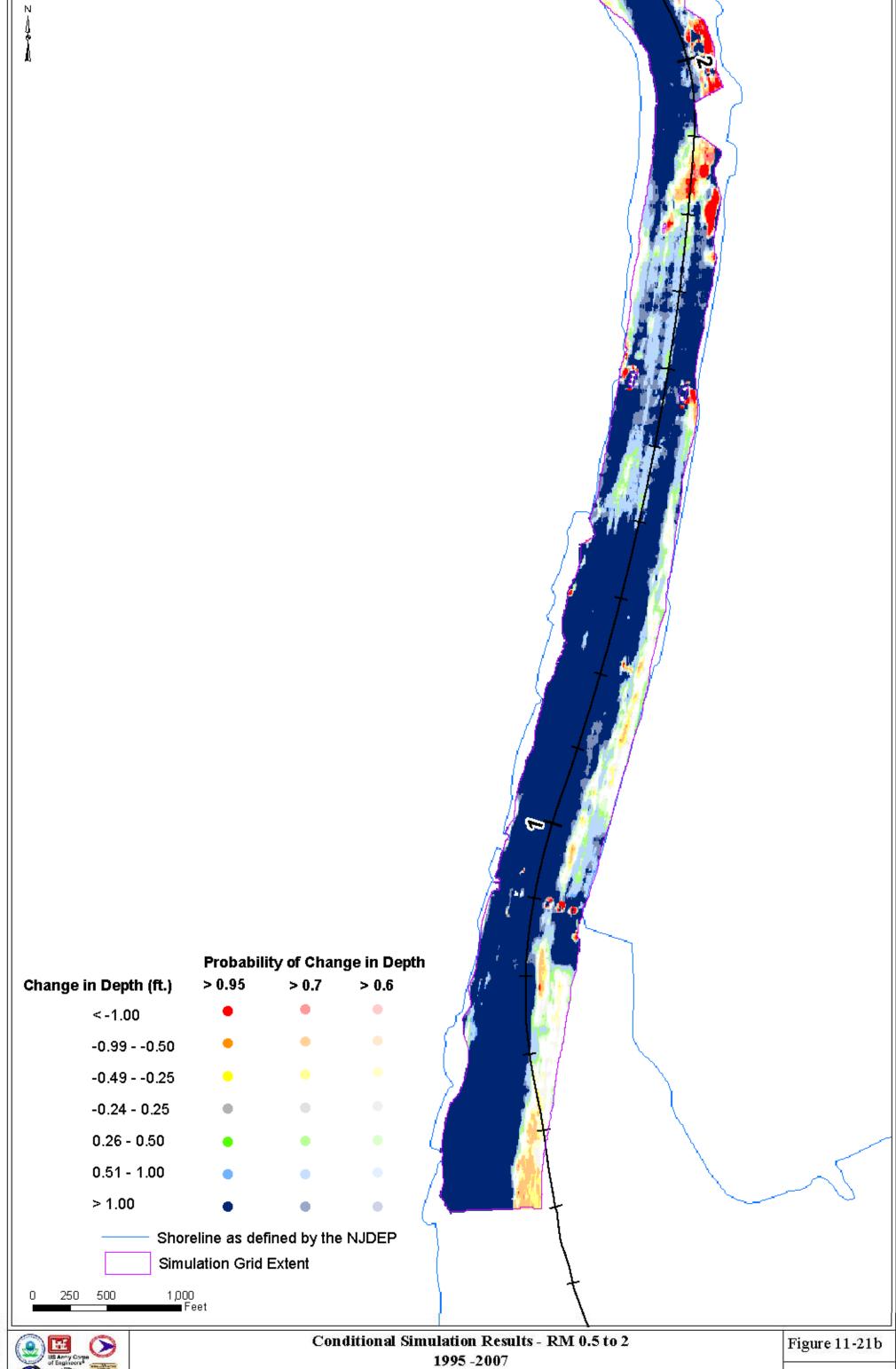


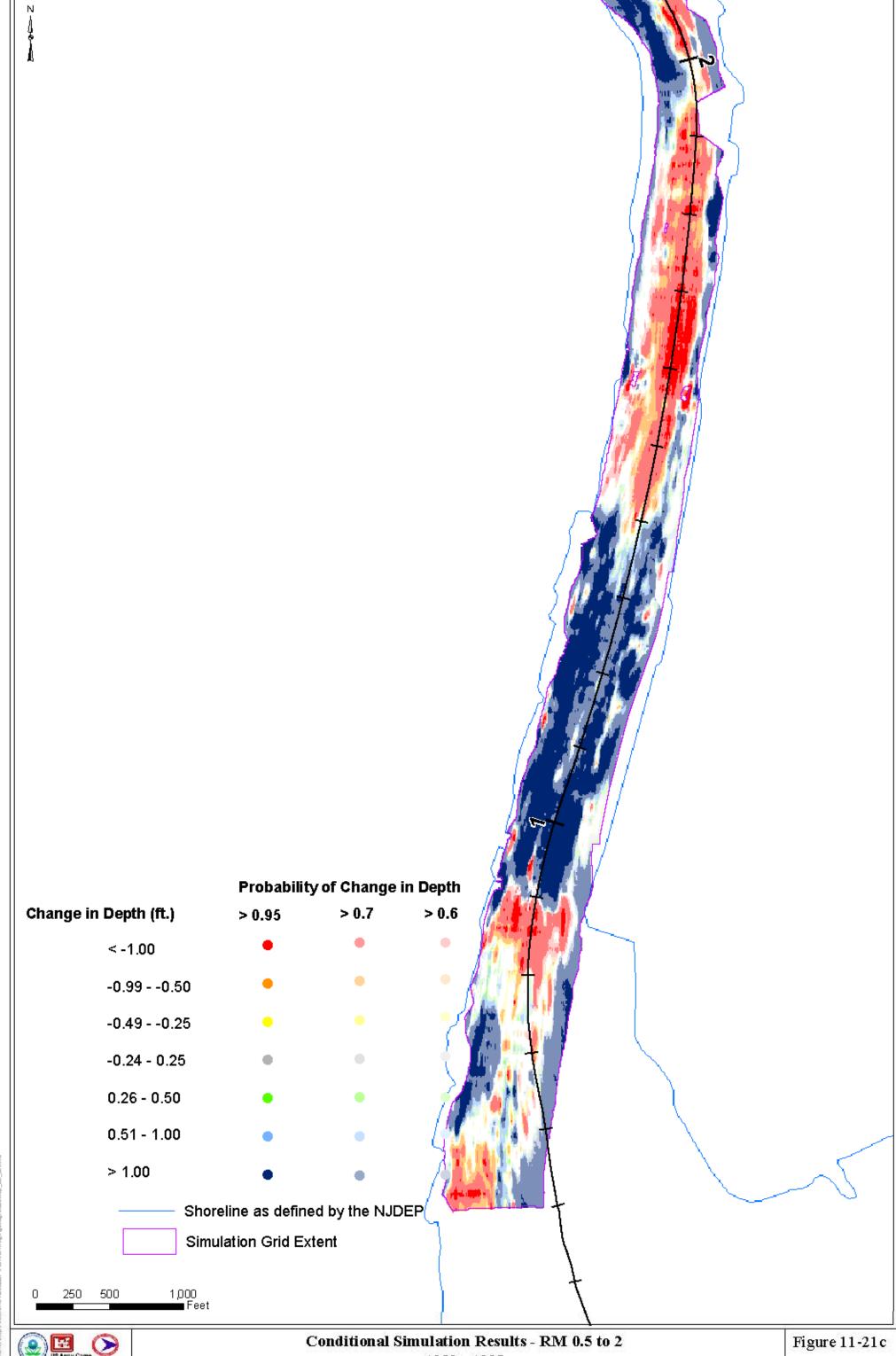




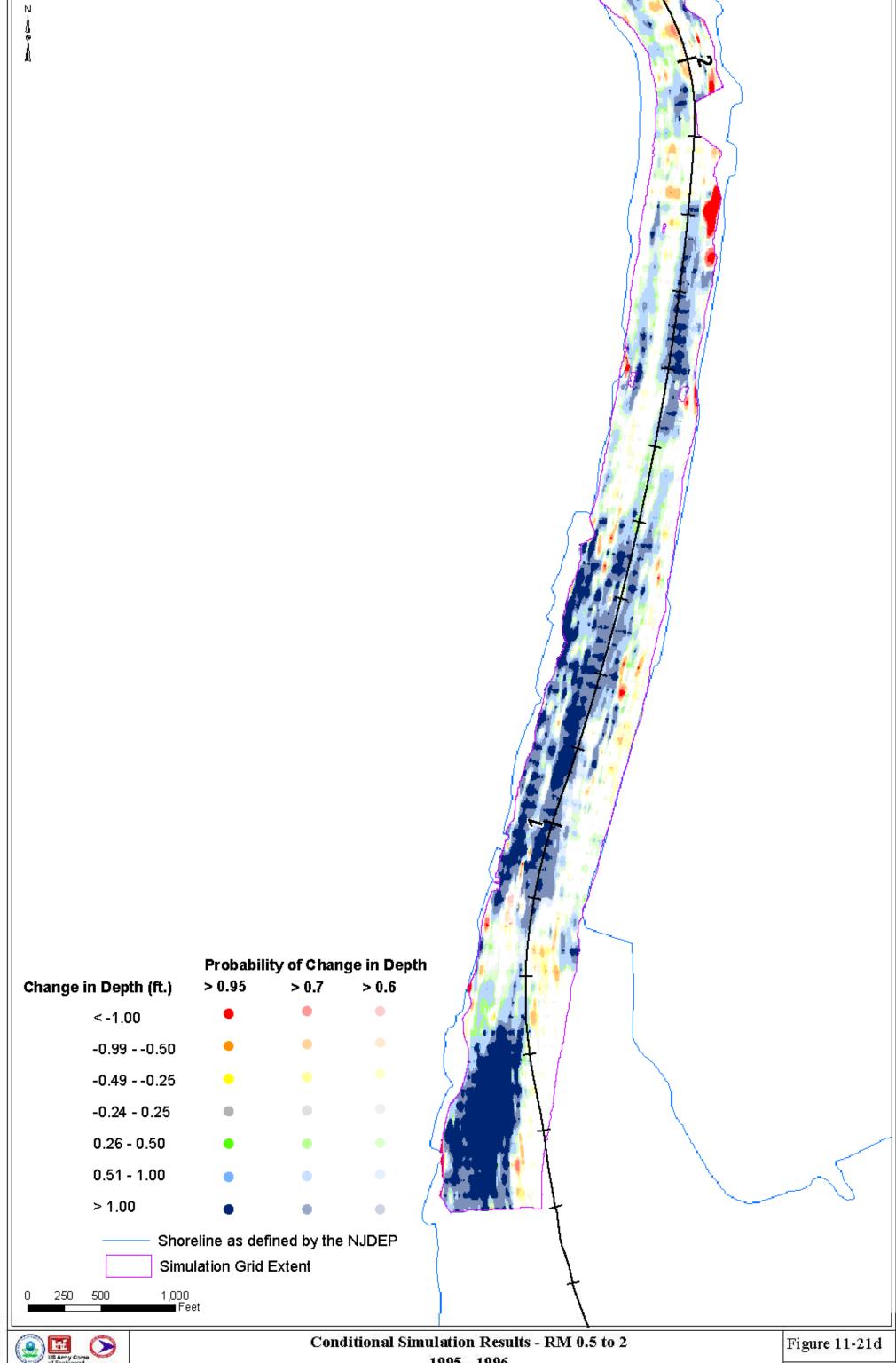




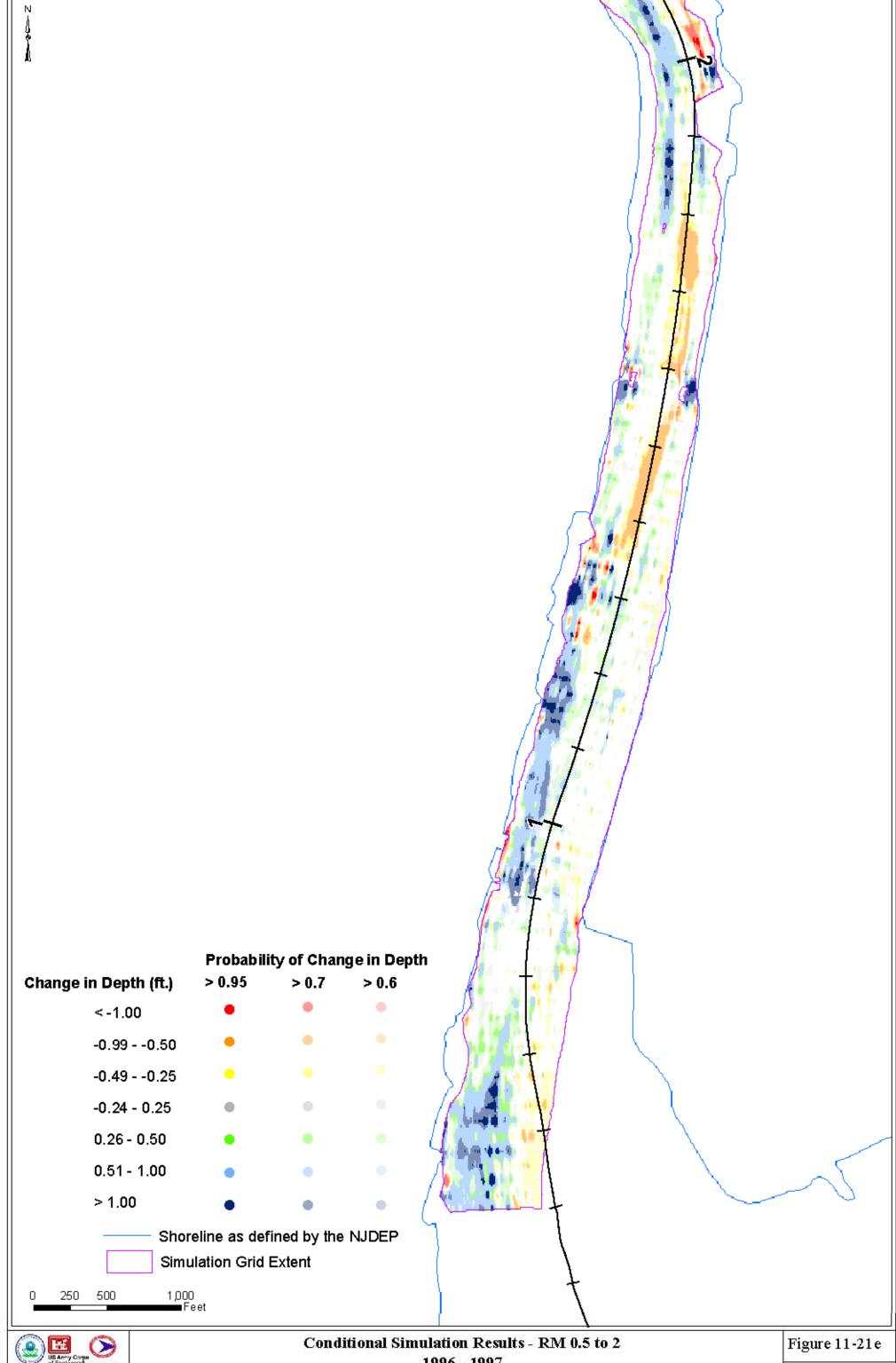




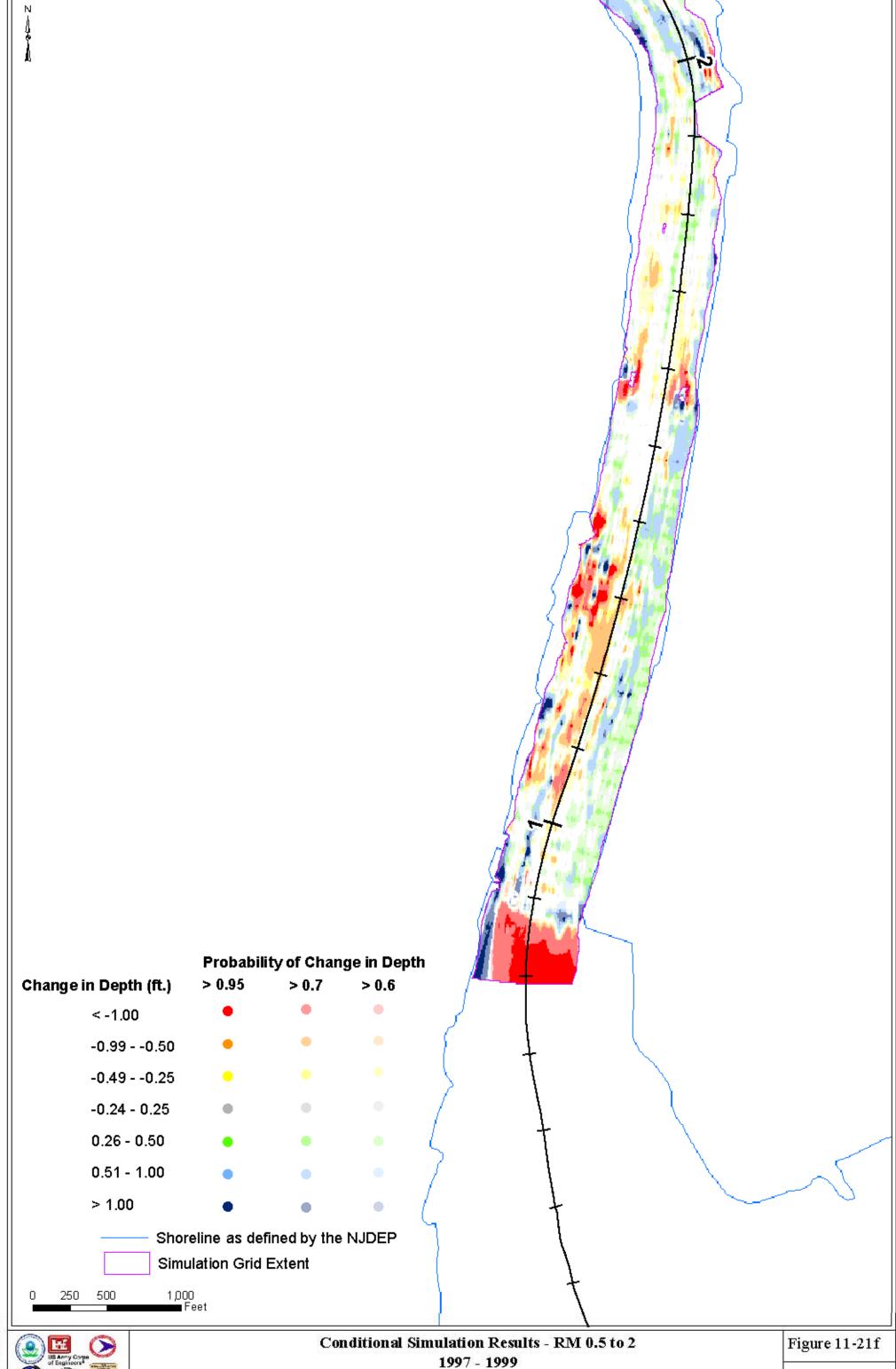


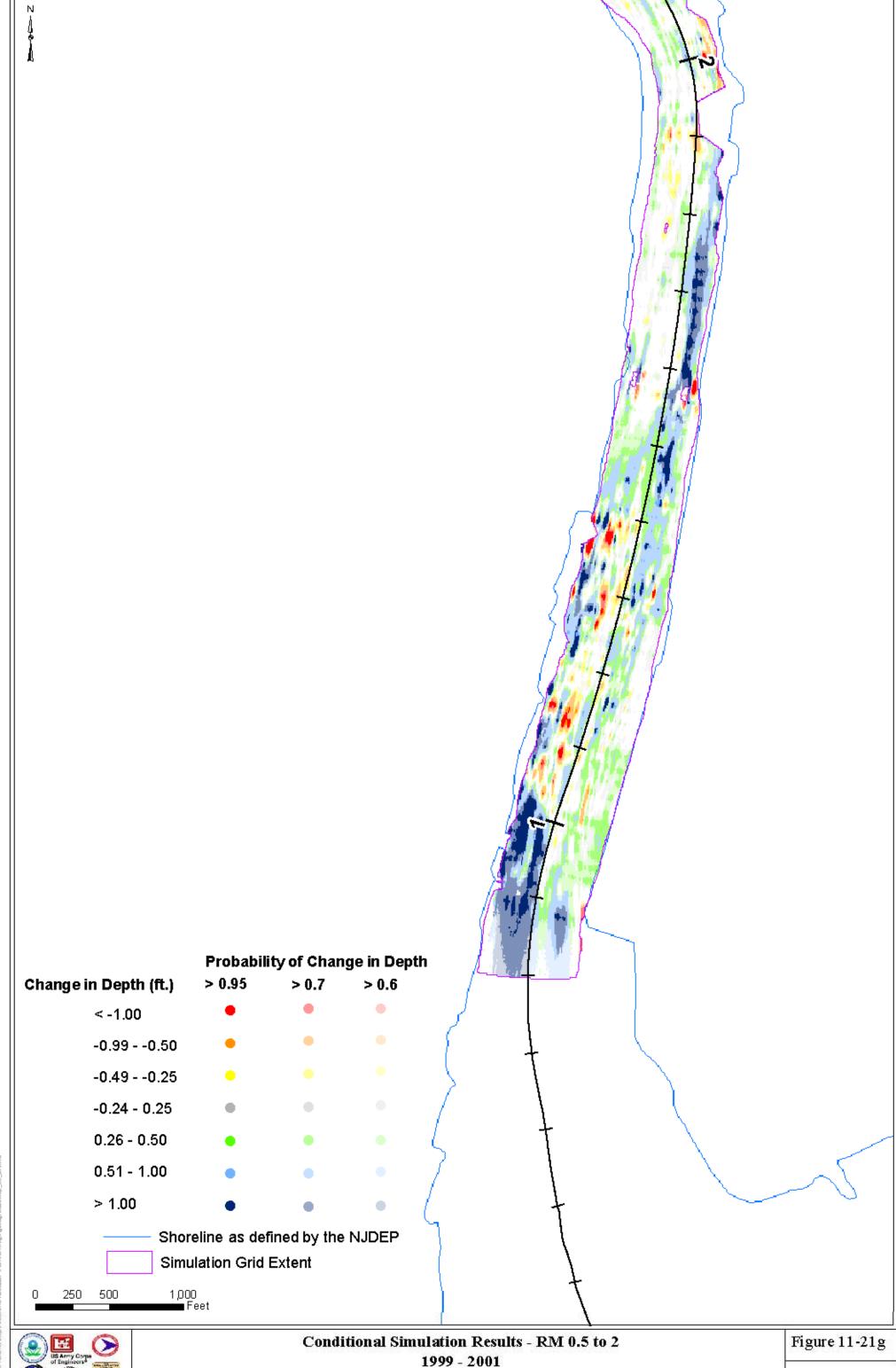


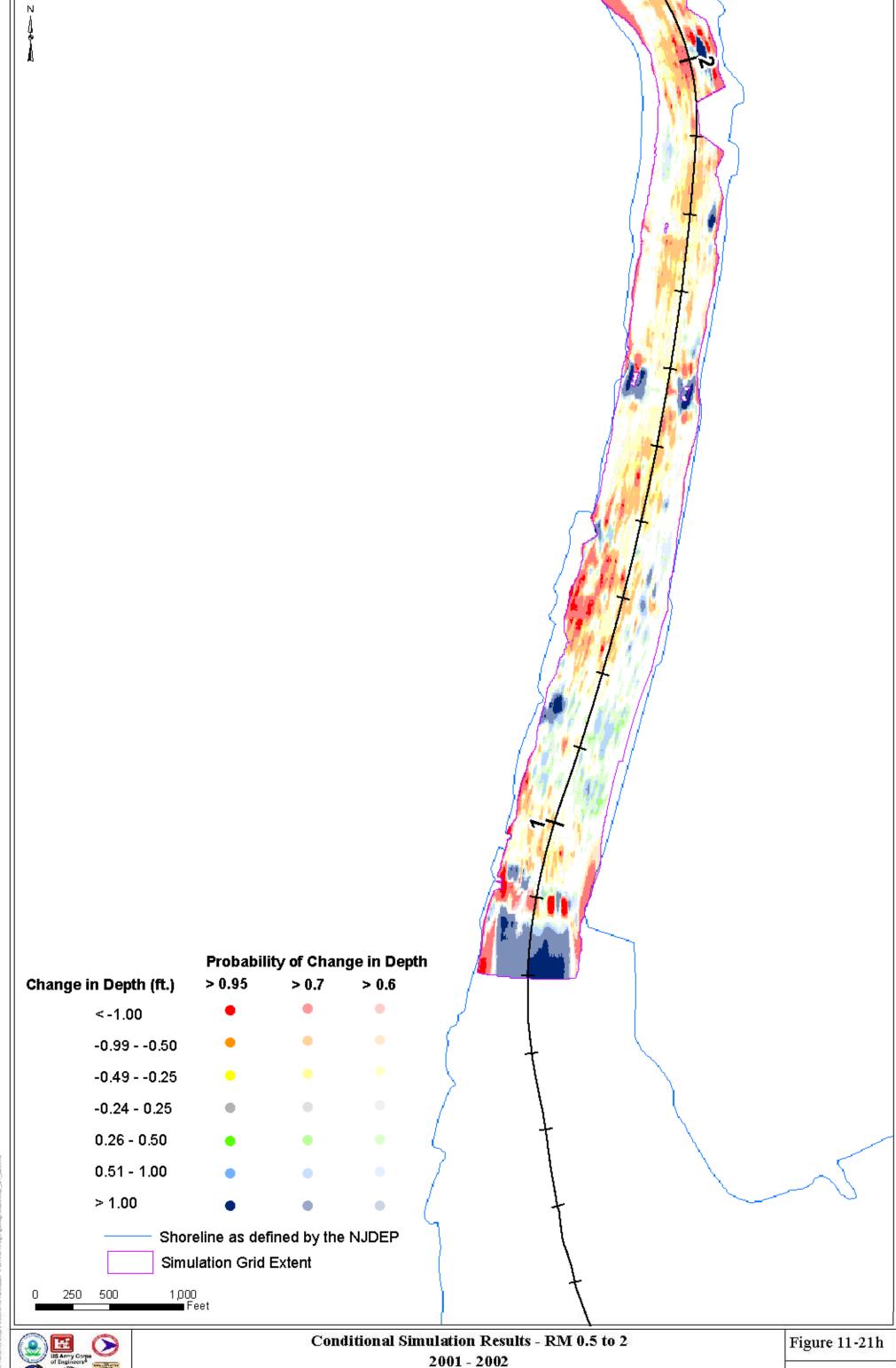
1995 - 1996

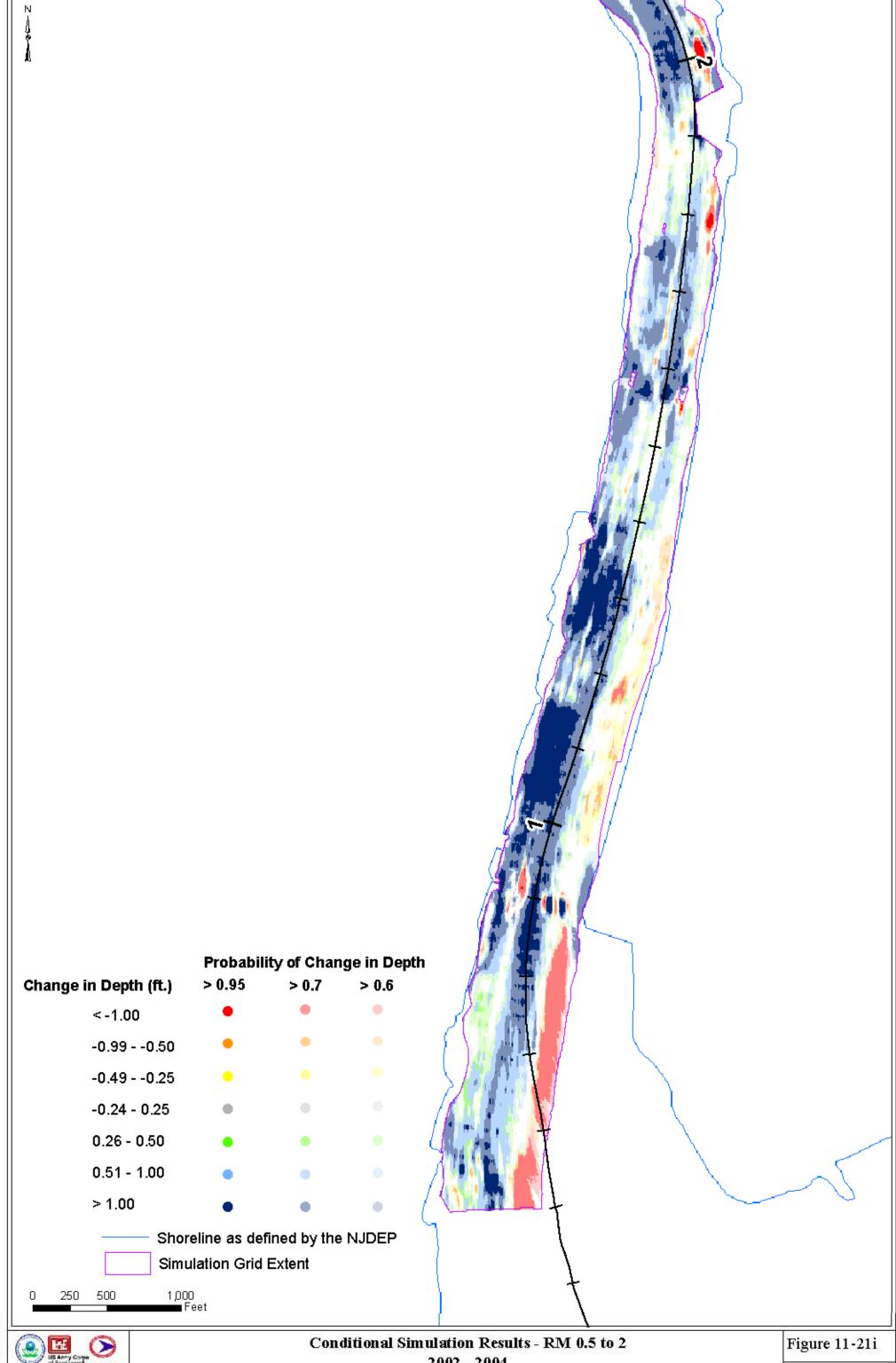


1996 - 1997



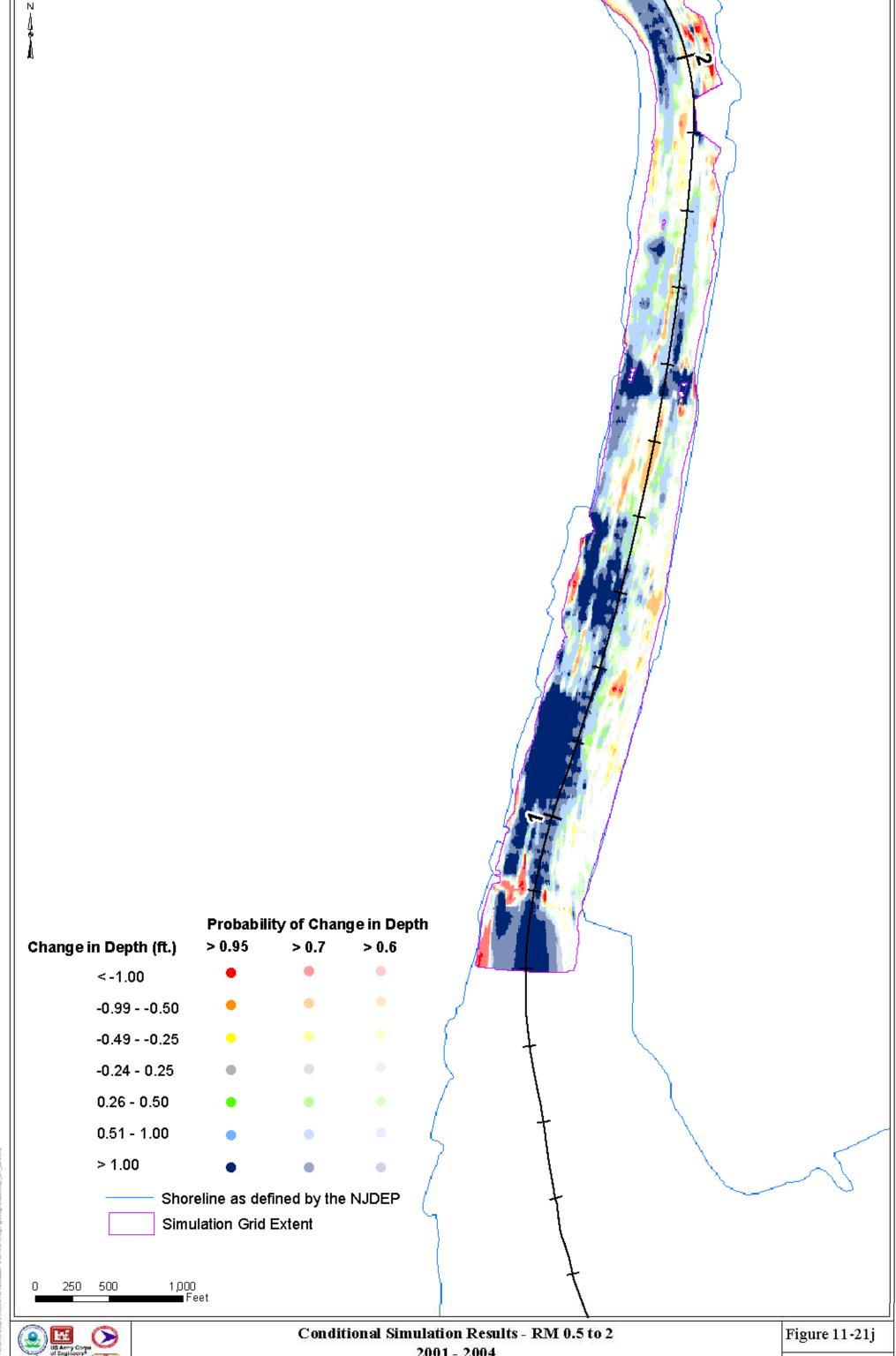


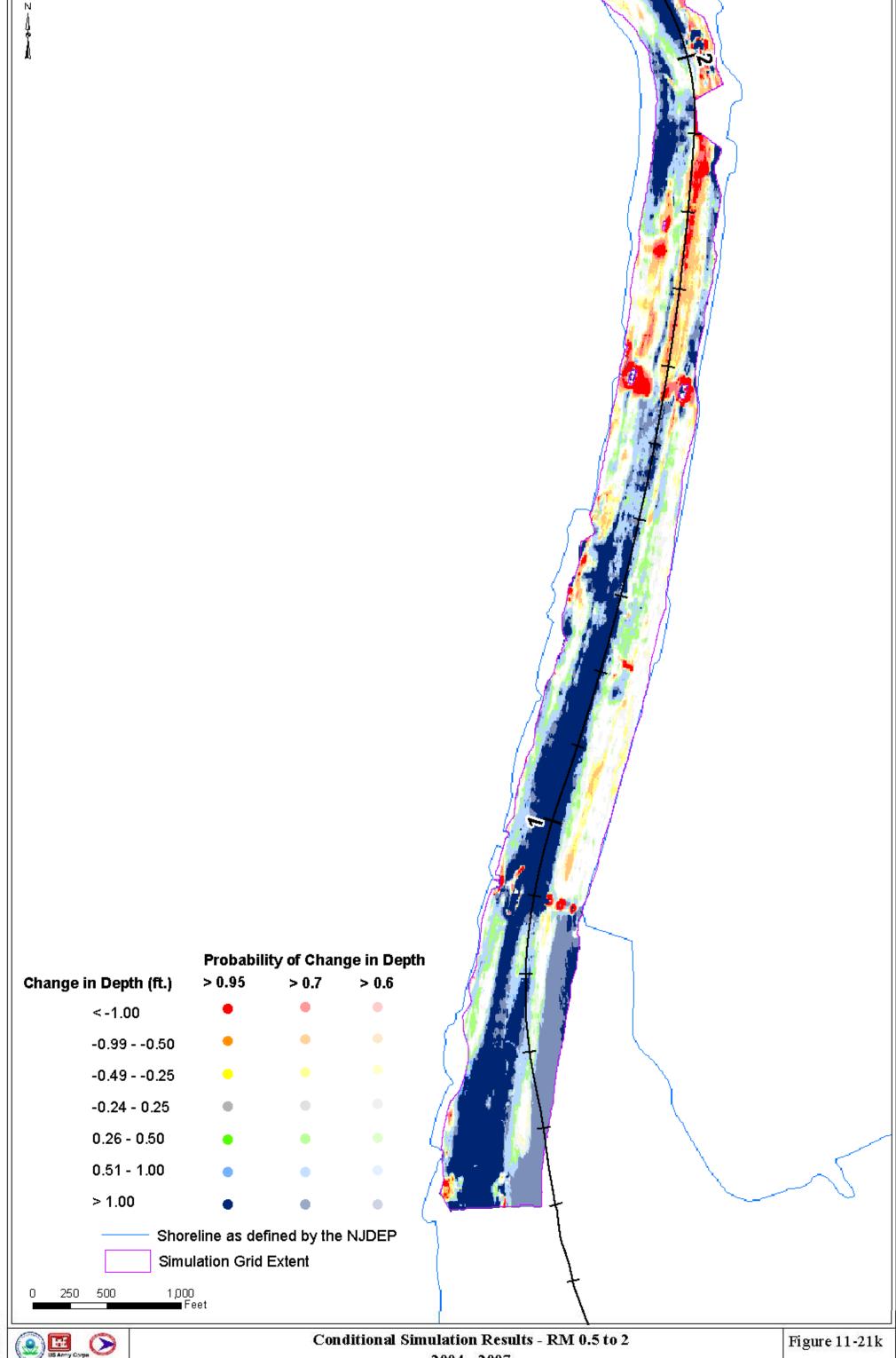




2002 - 2004

Lower Passaic River Restoration

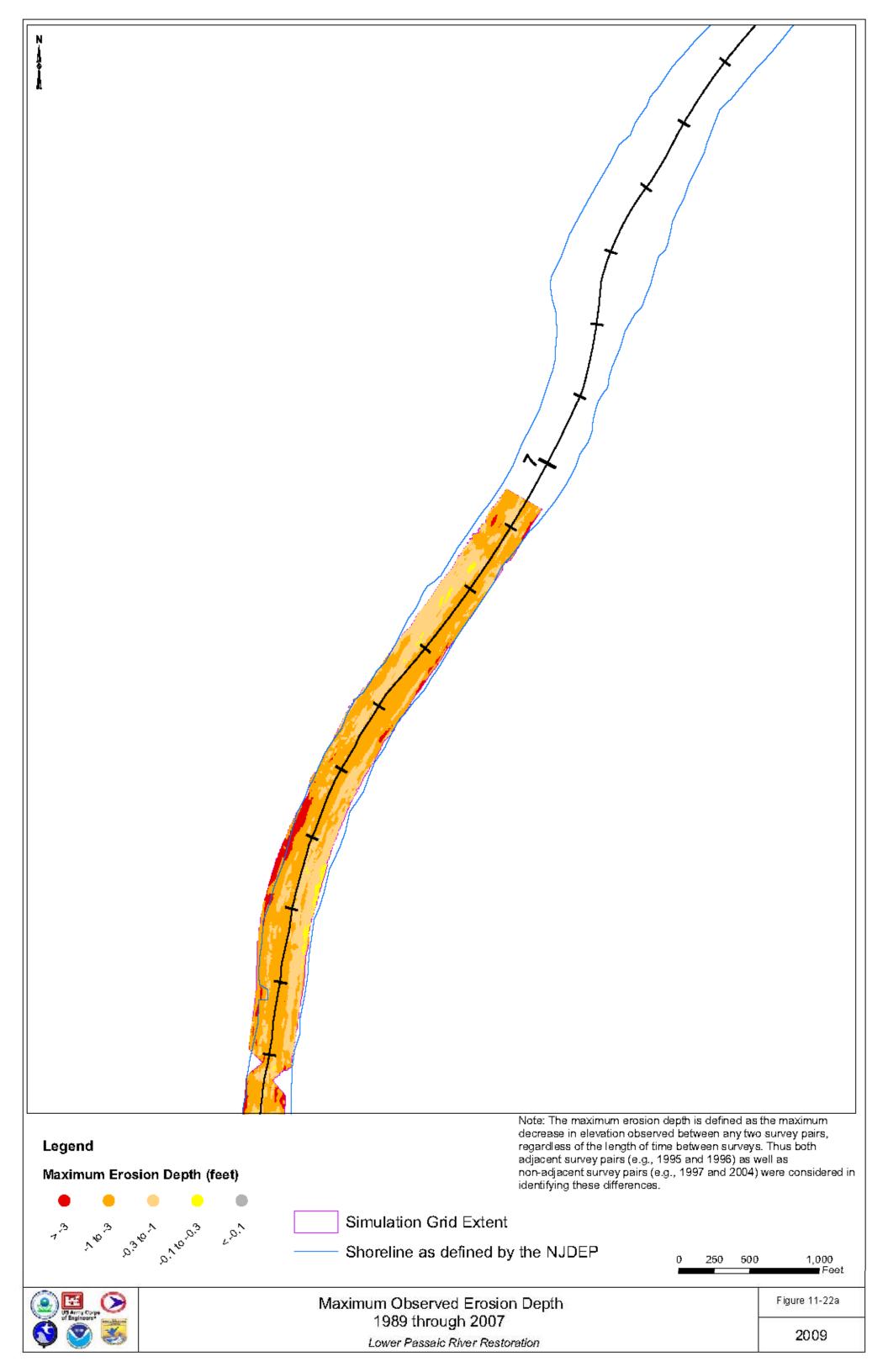


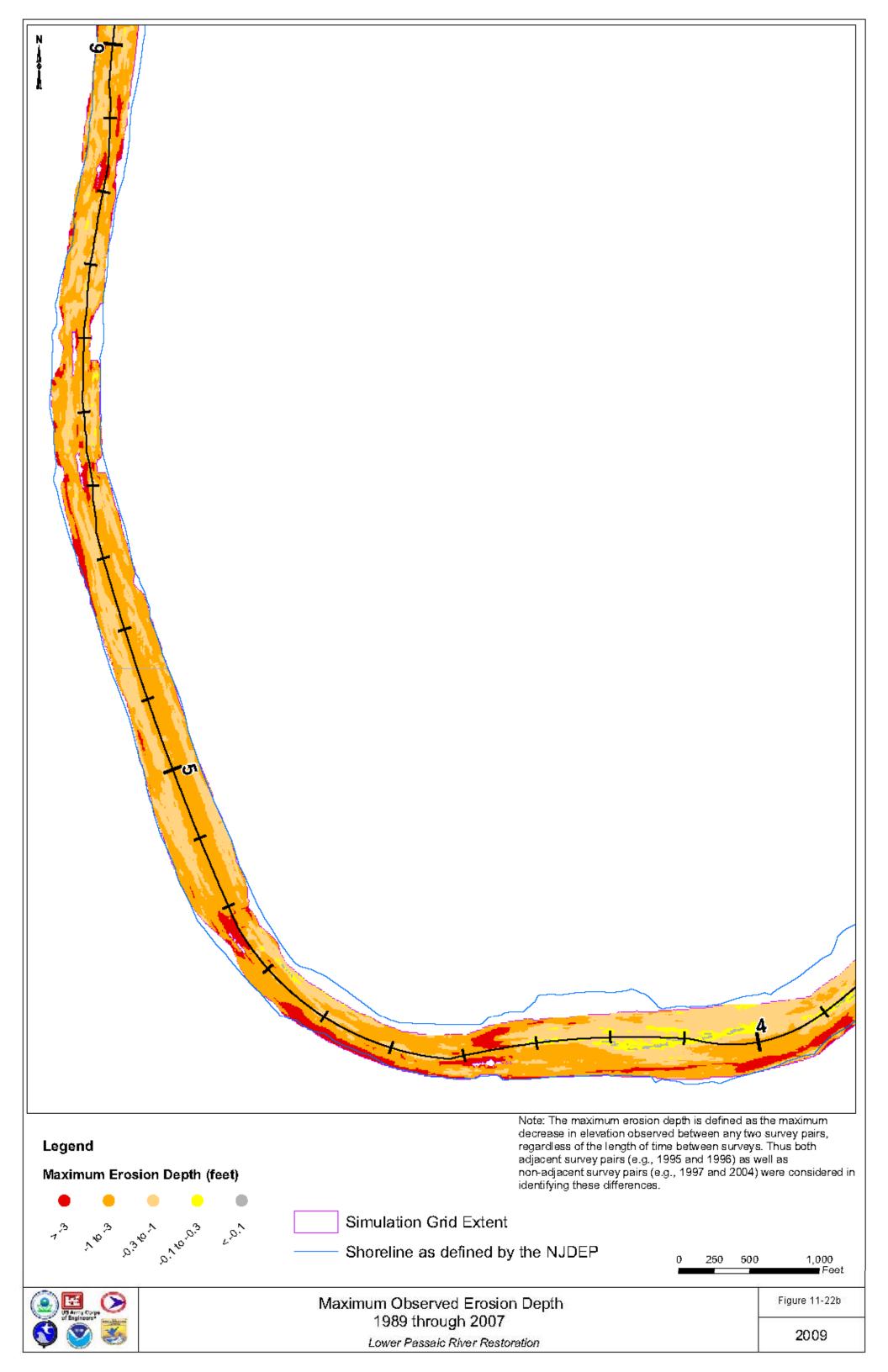


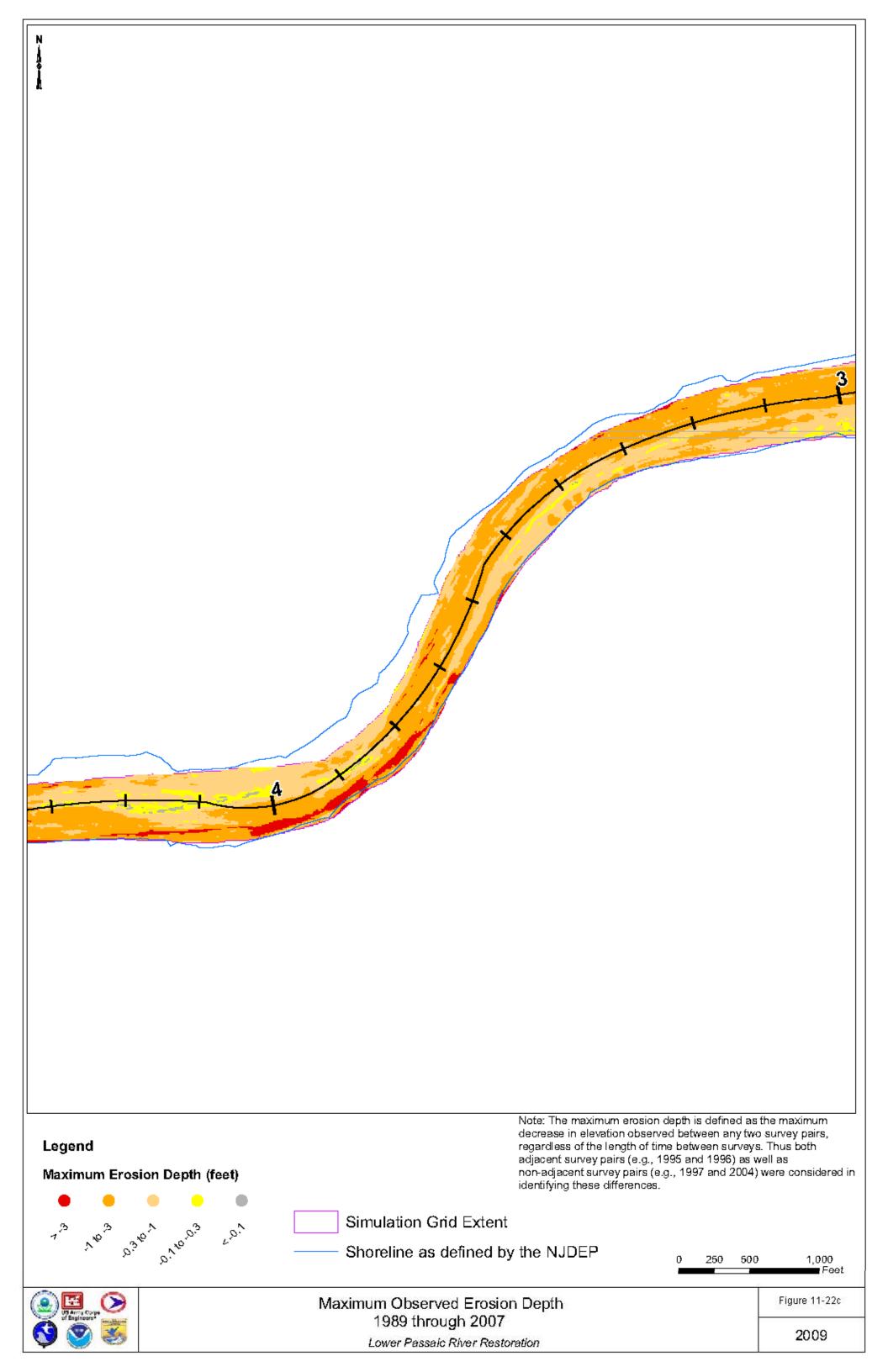


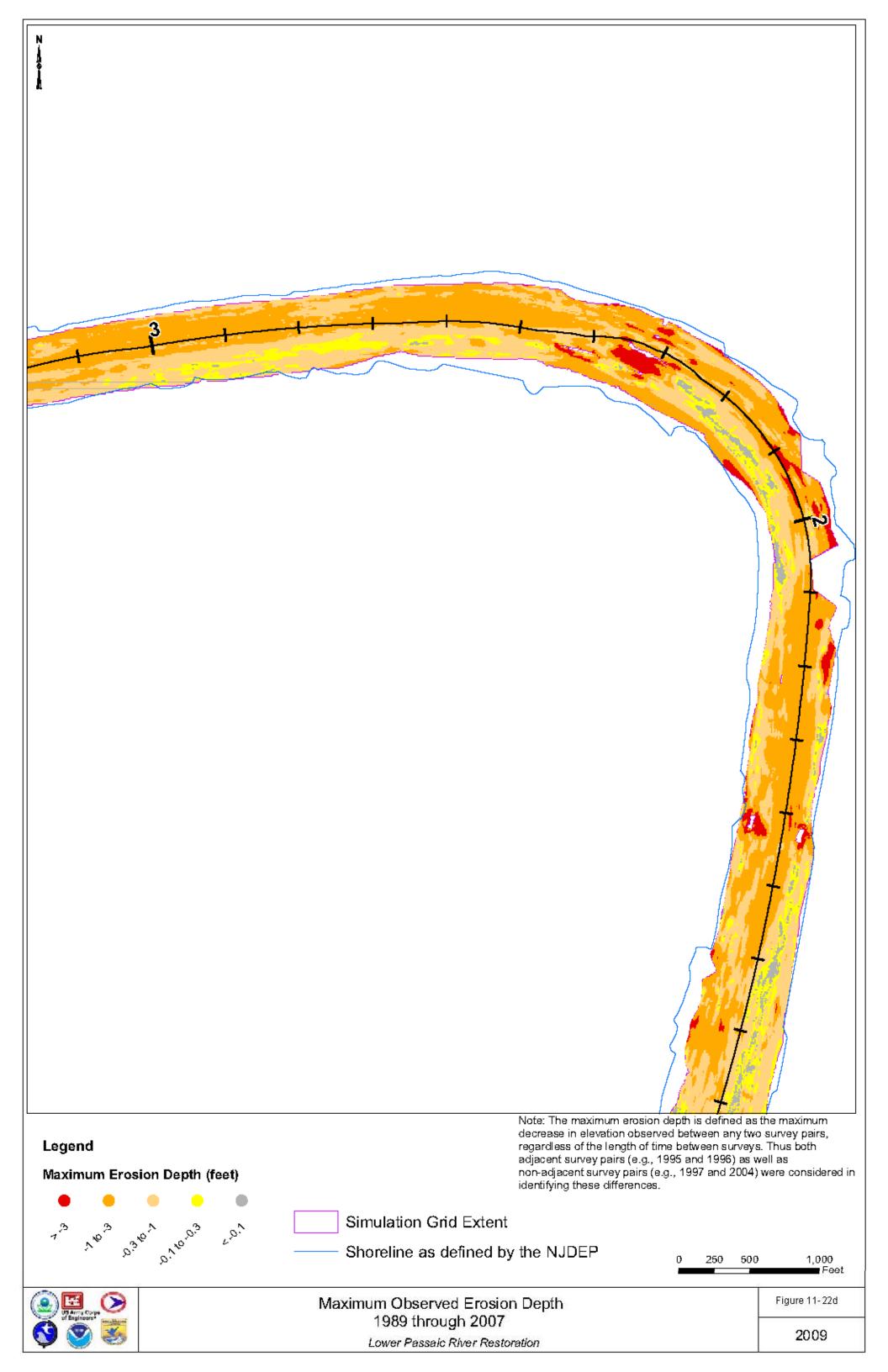
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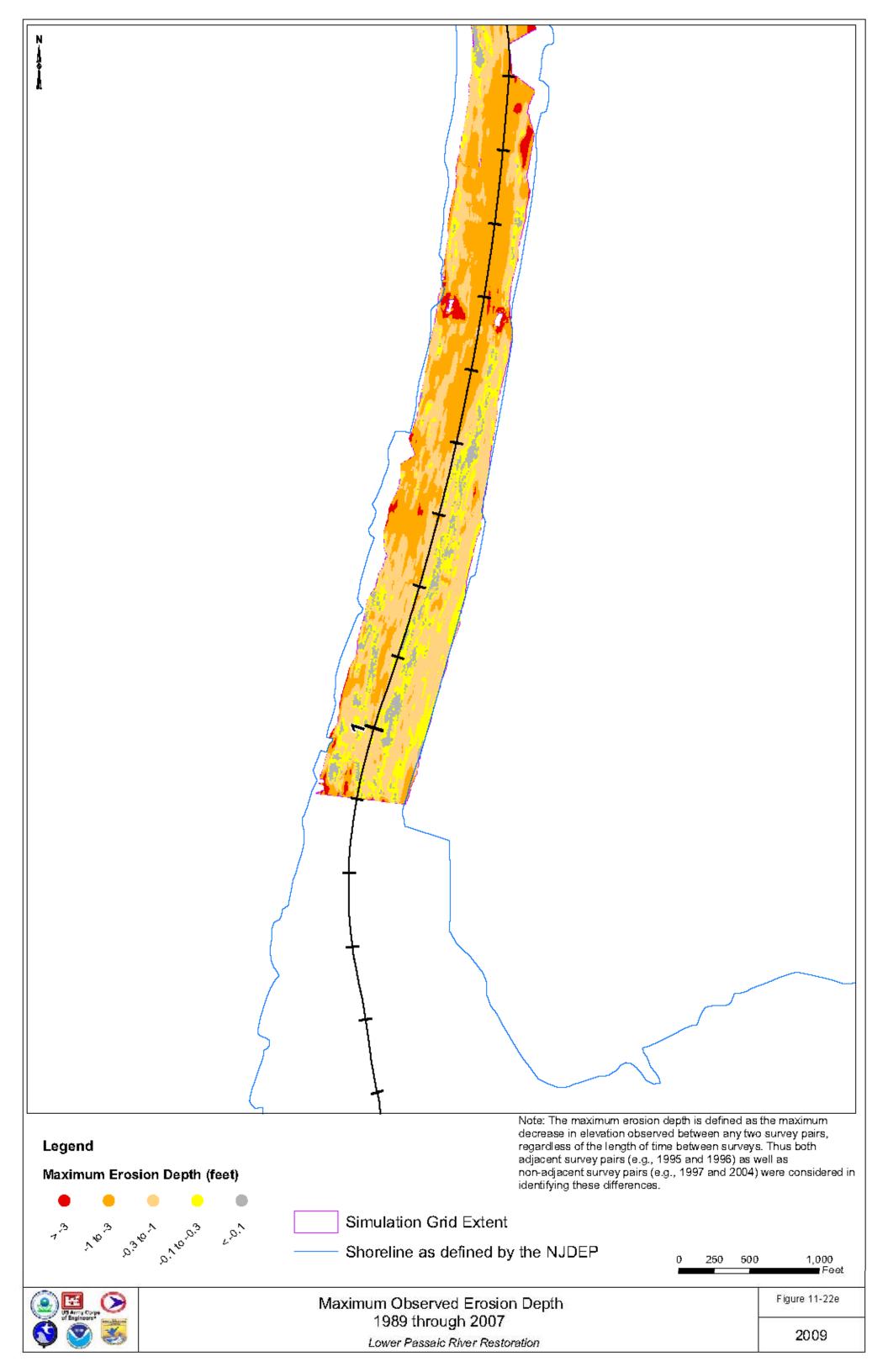
Lower Passaic River Restoration

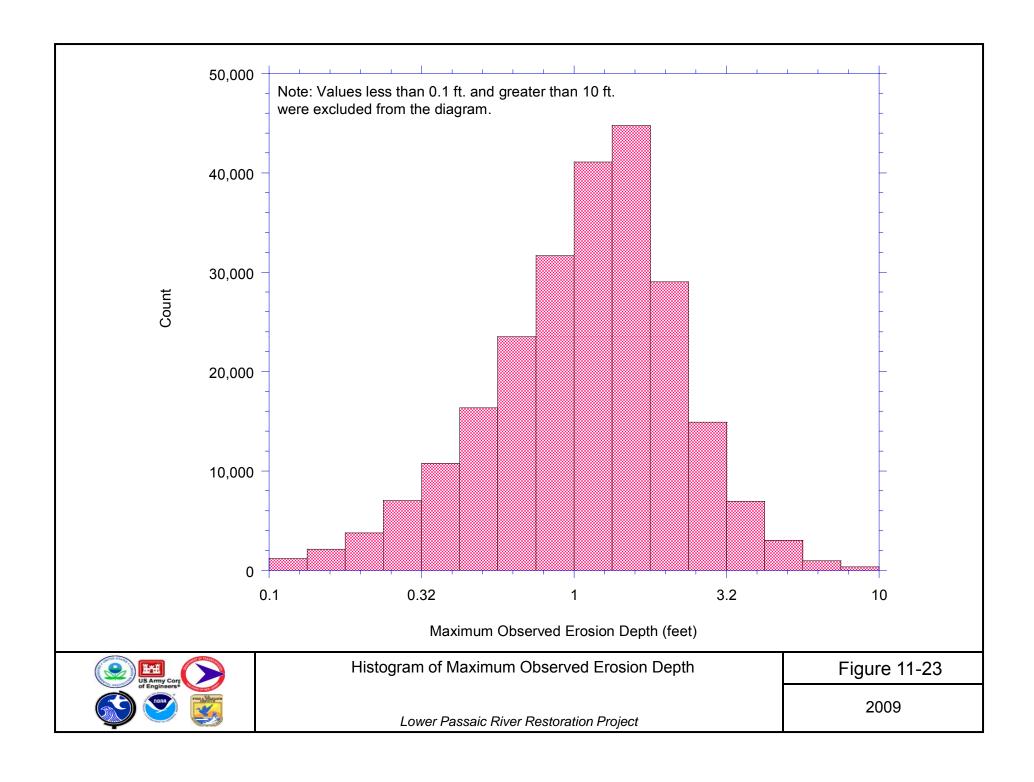


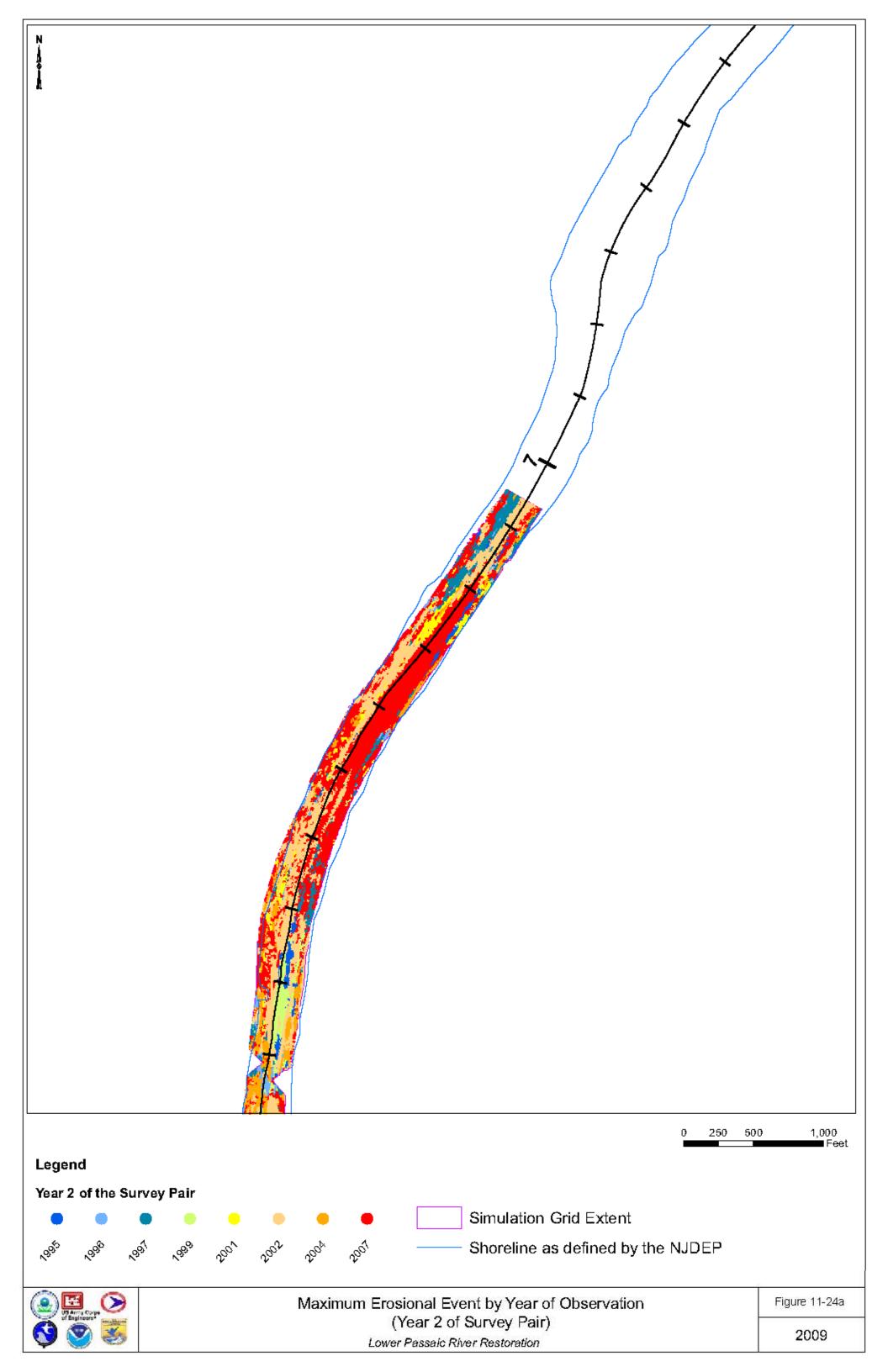


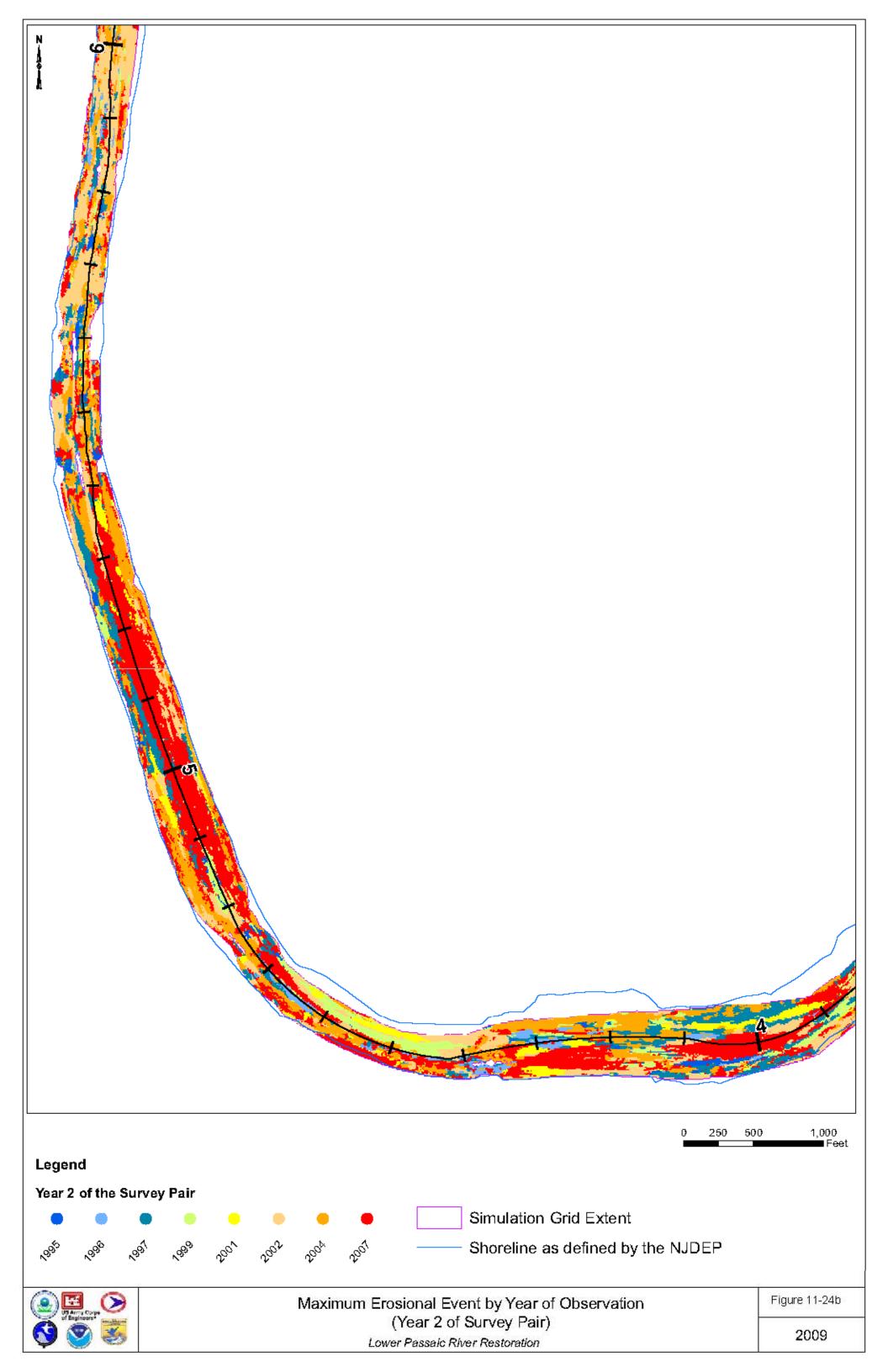


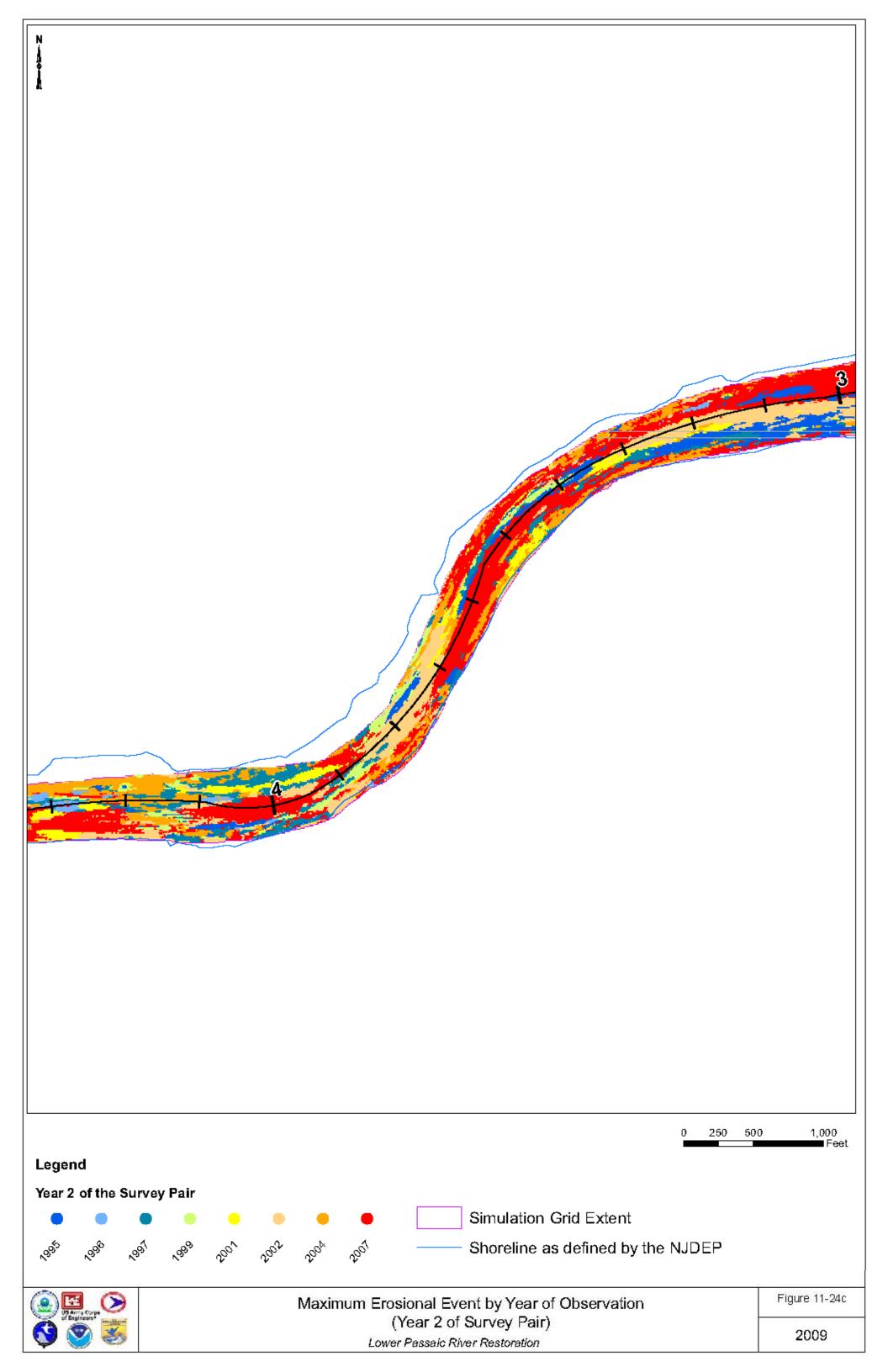


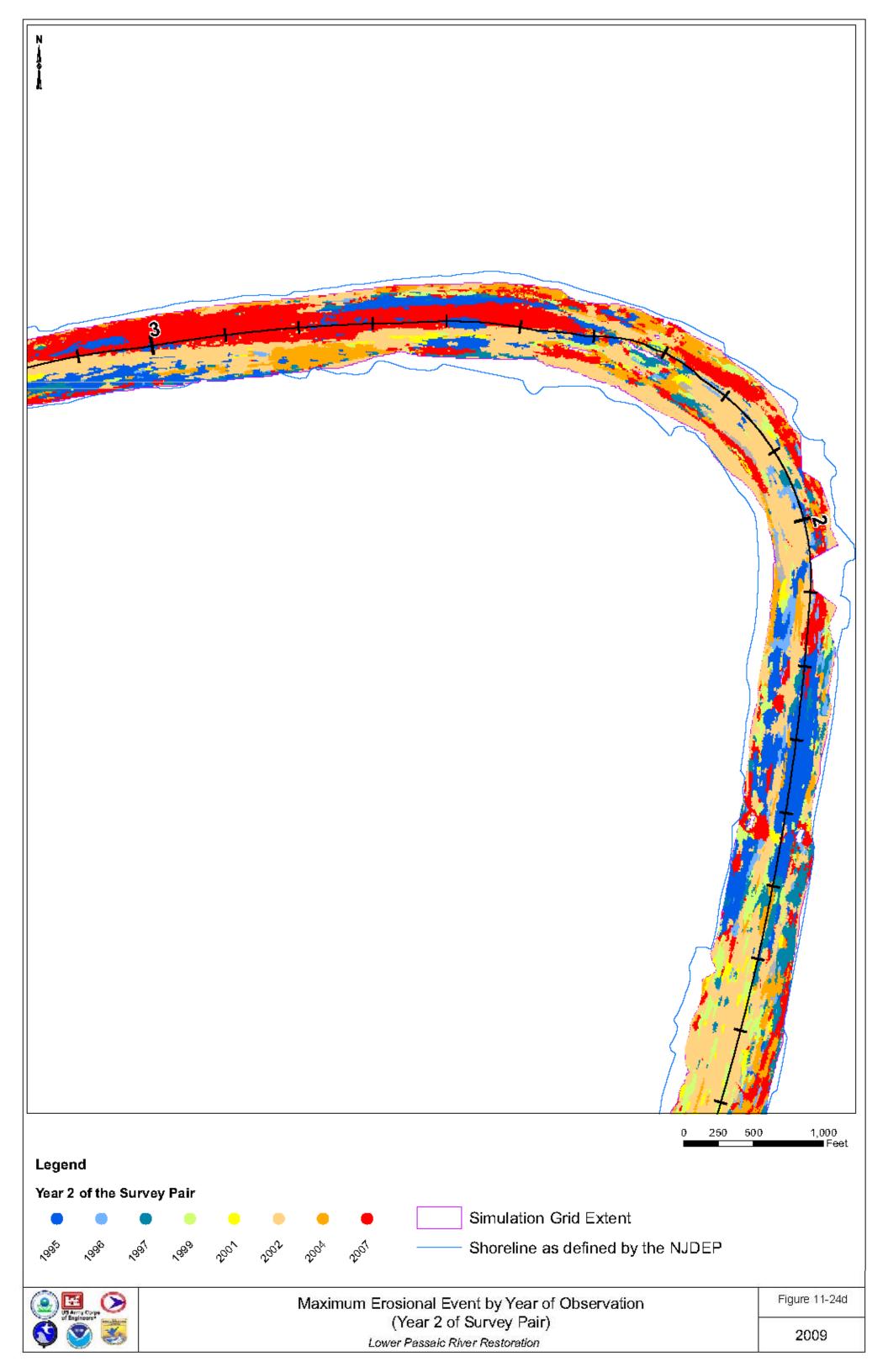


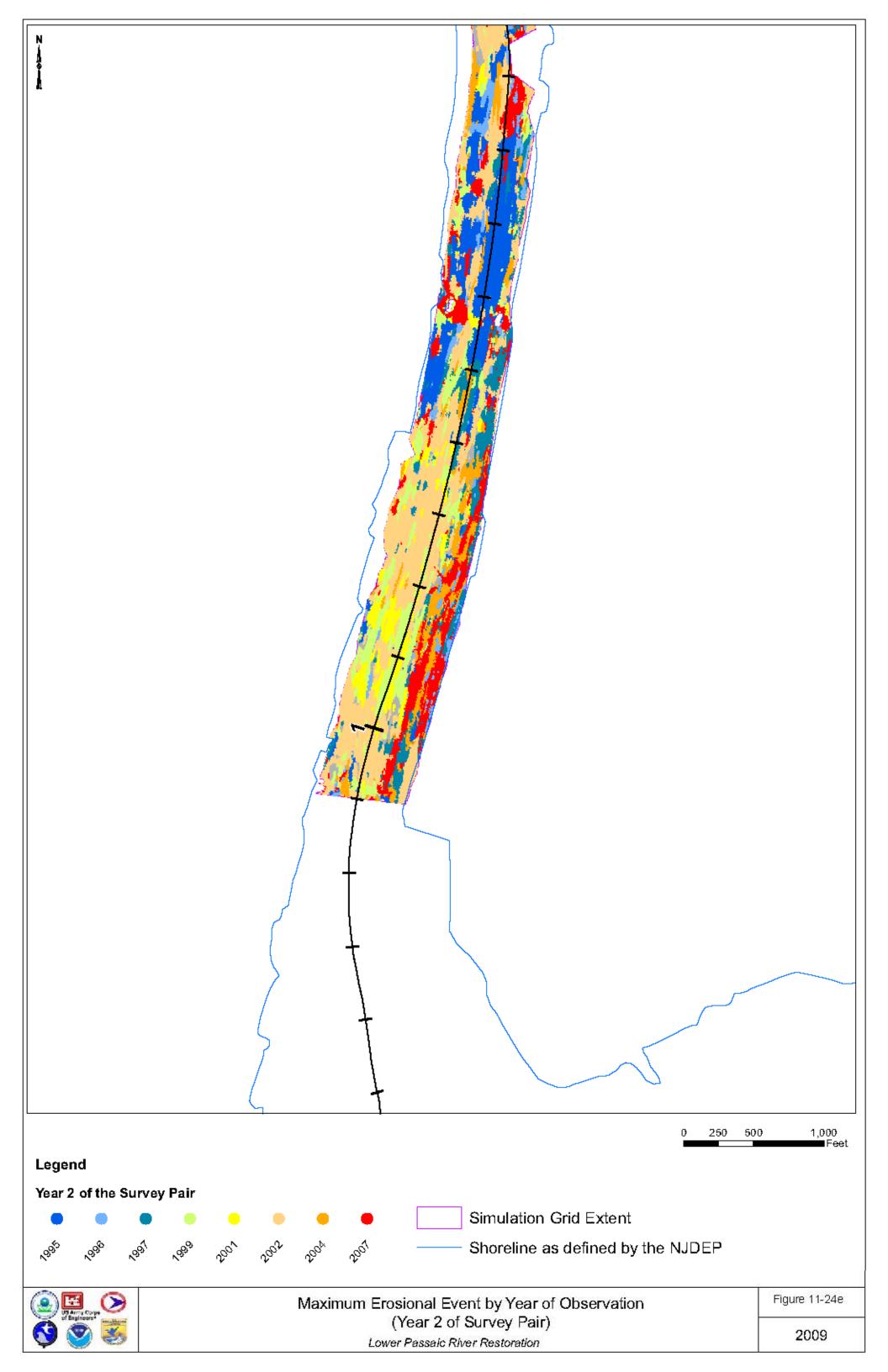


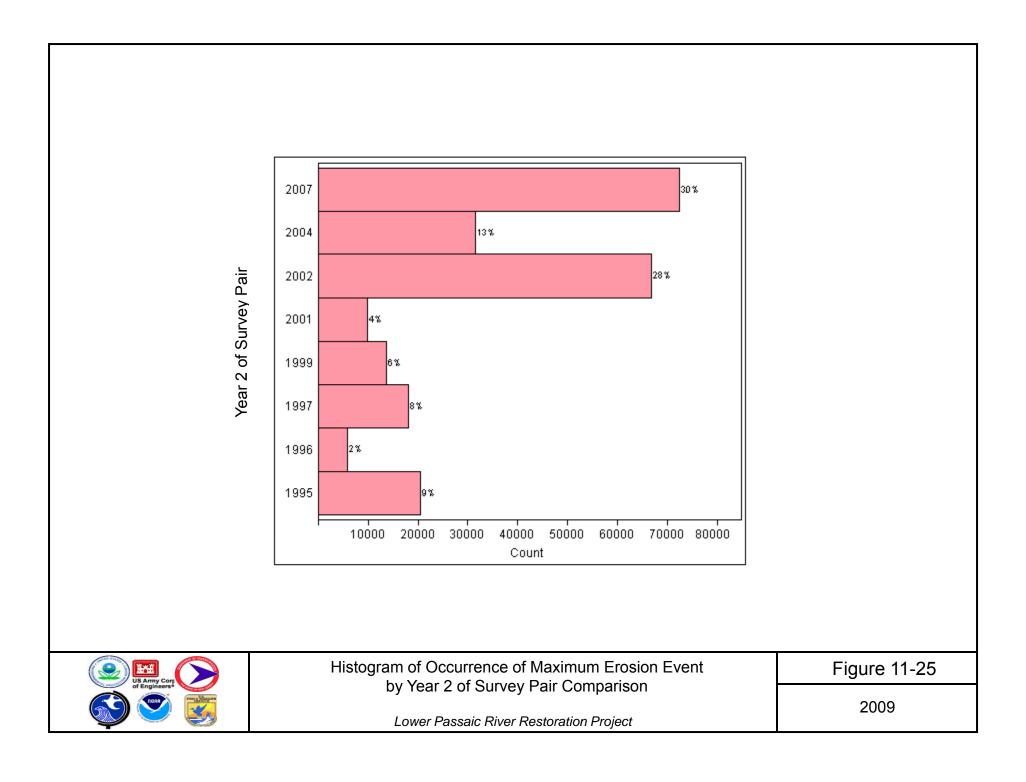












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Count of Survey Pairs Showing Erosion with 70% Level of Confidence

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Count of Survey Pairs Showing Erosion with 70% Level of Confidence

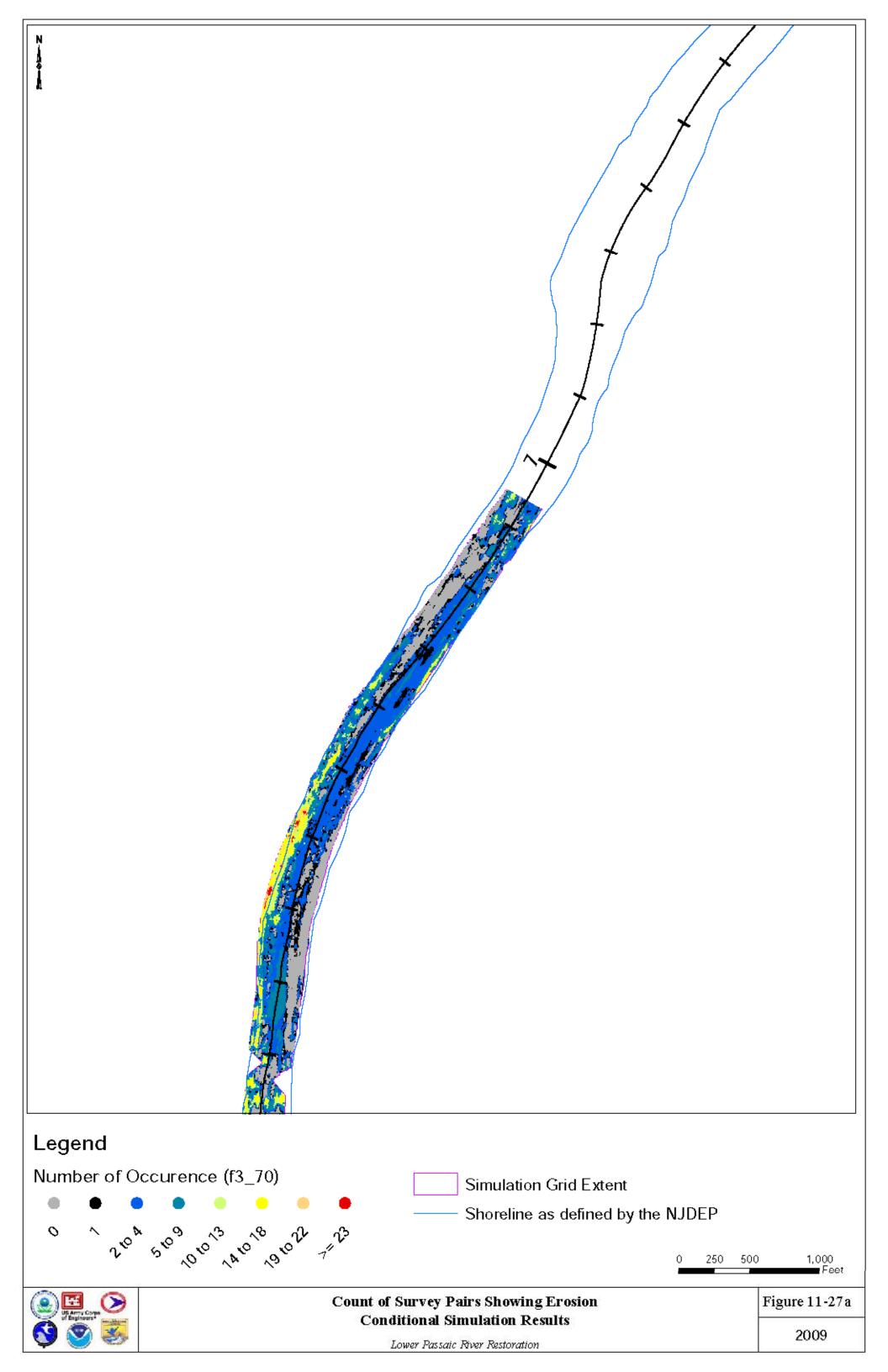
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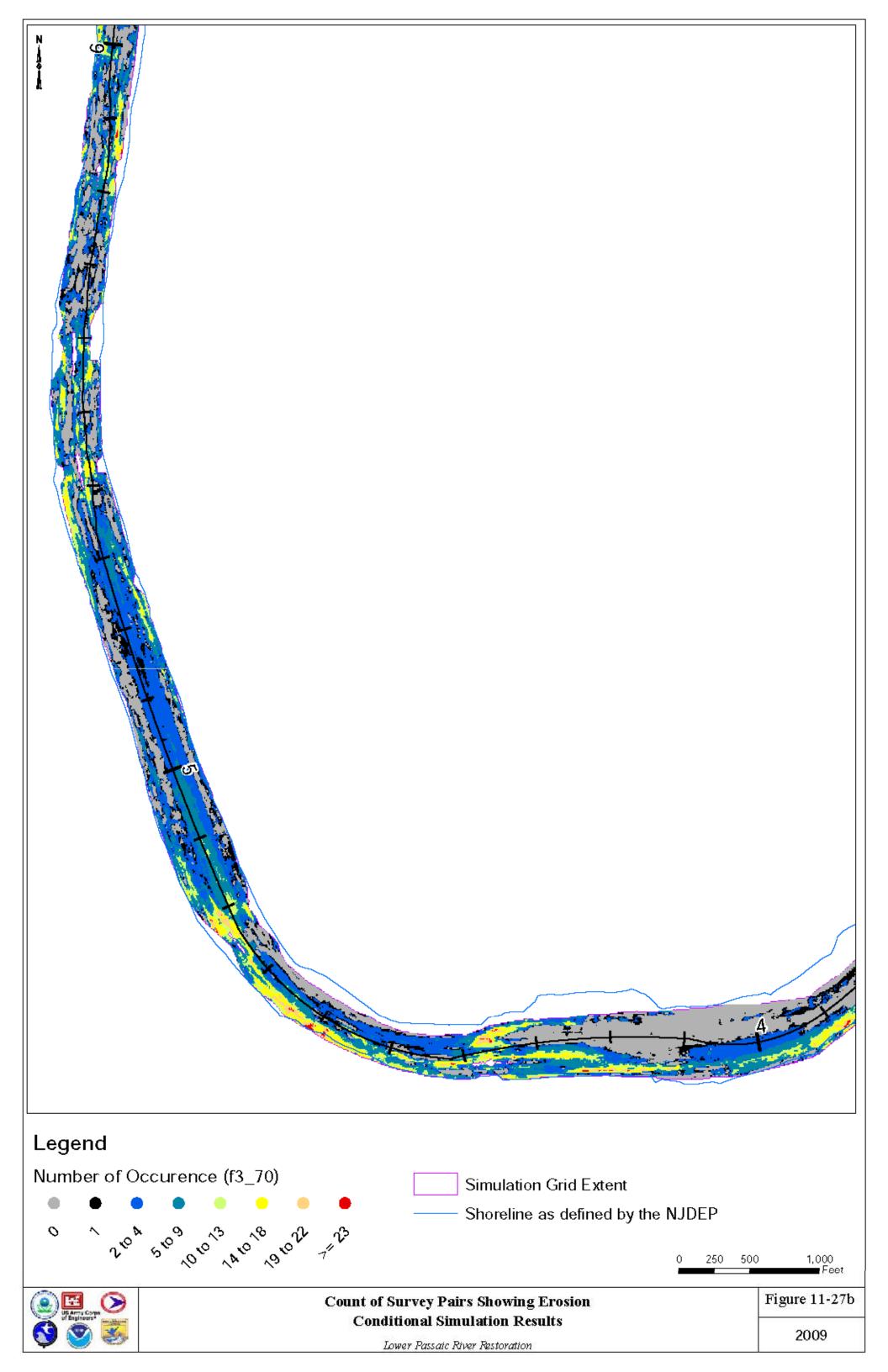
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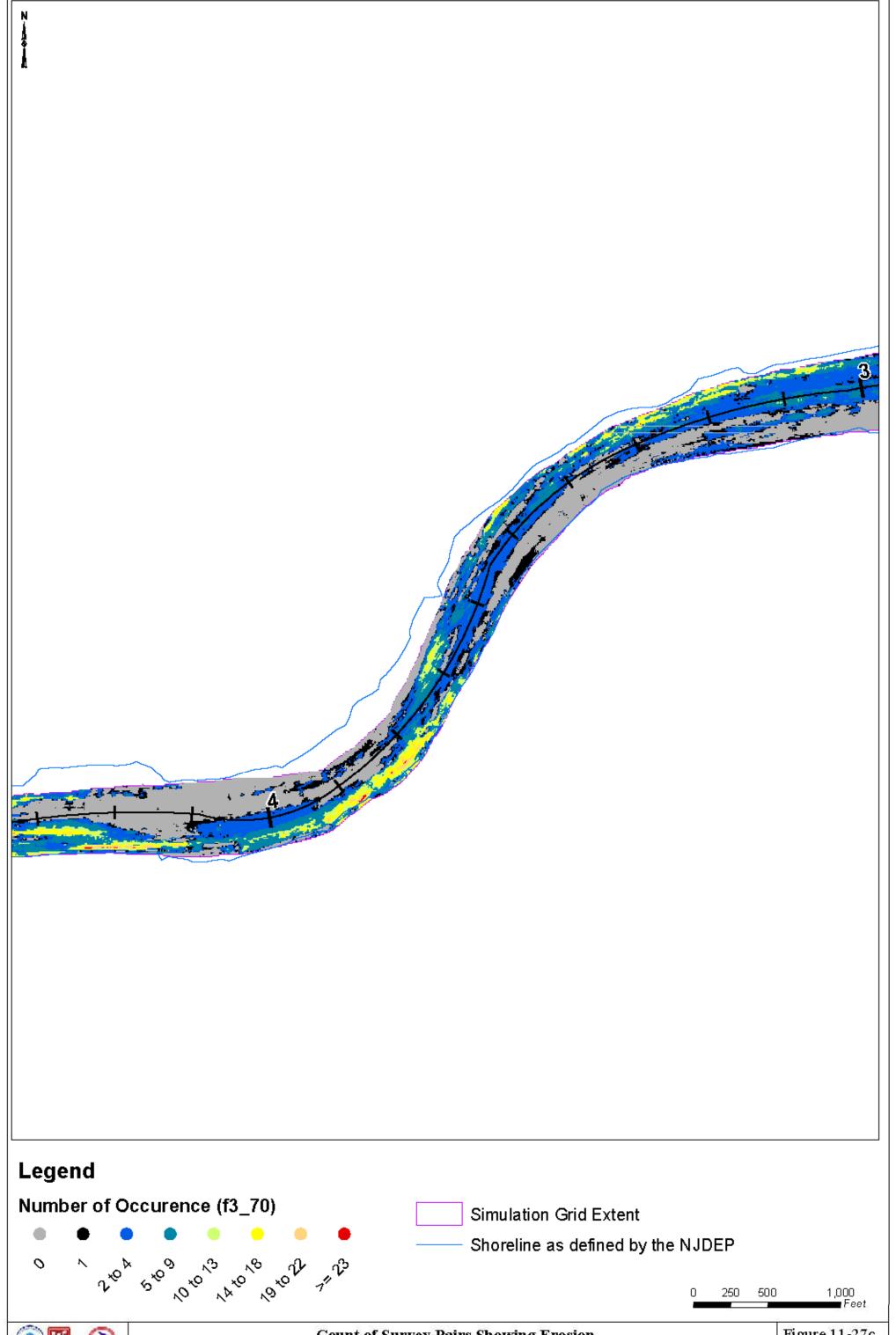
Lower Passaic River Restoration

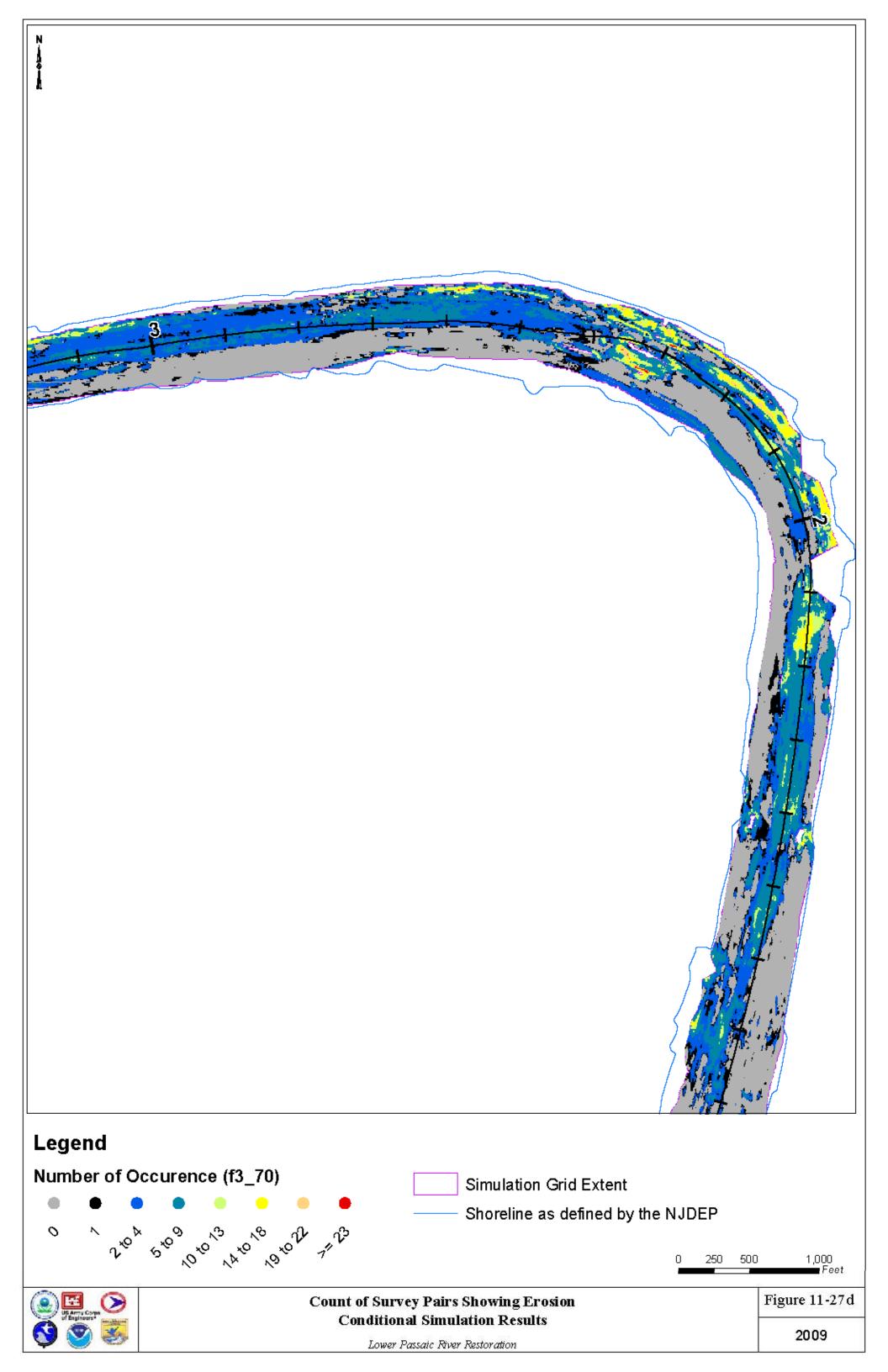
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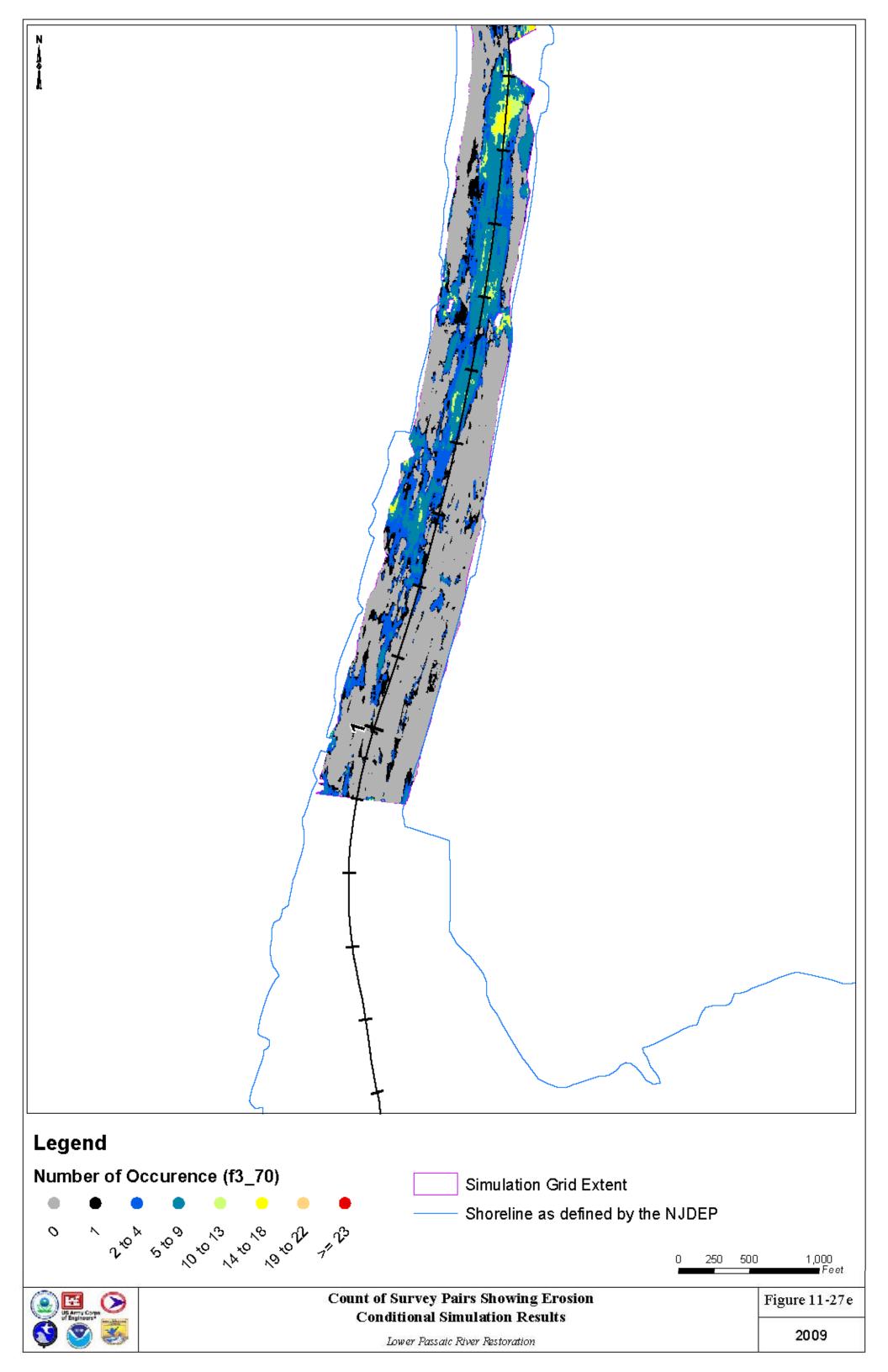
Conditional Simulation Results
Count of Survey Pairs Showing Erosion with 70% Level of Confidence







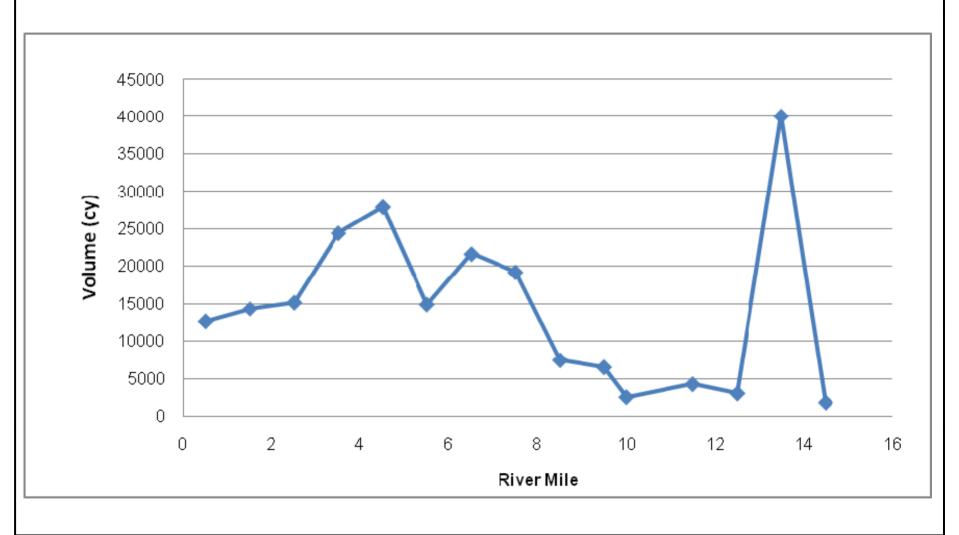




Lower Passaic River Restoration

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Count of Survey Pairs Showing Deposition with 95% Level of Confidence

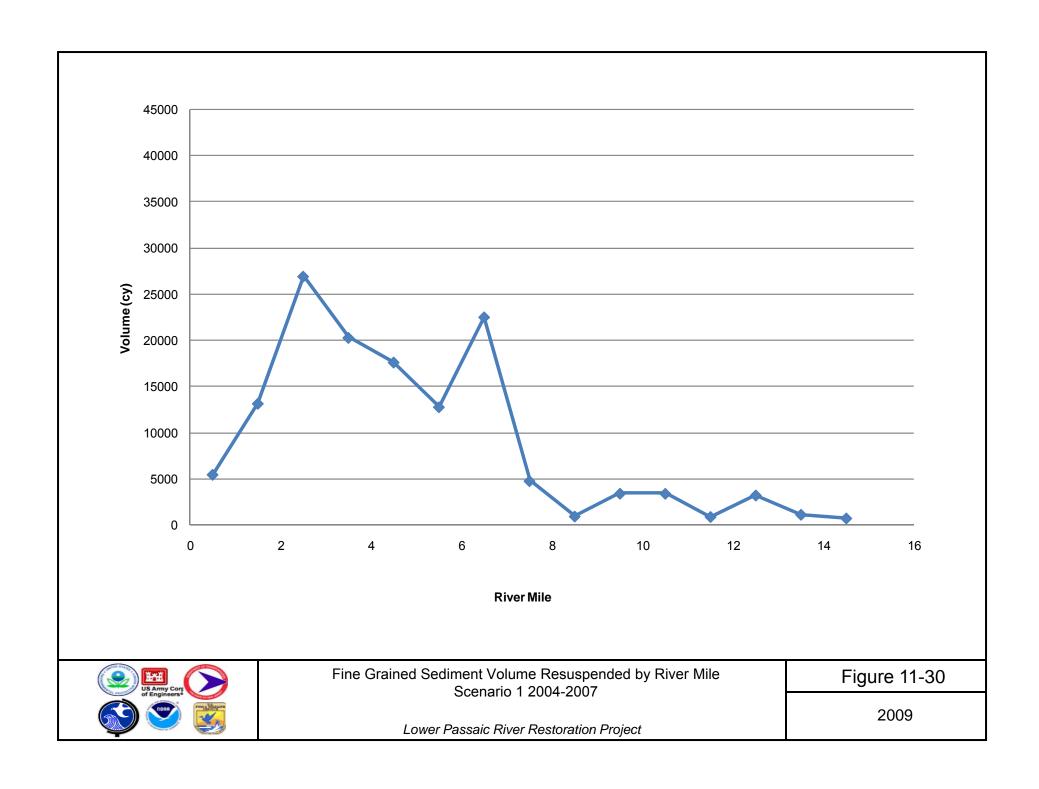


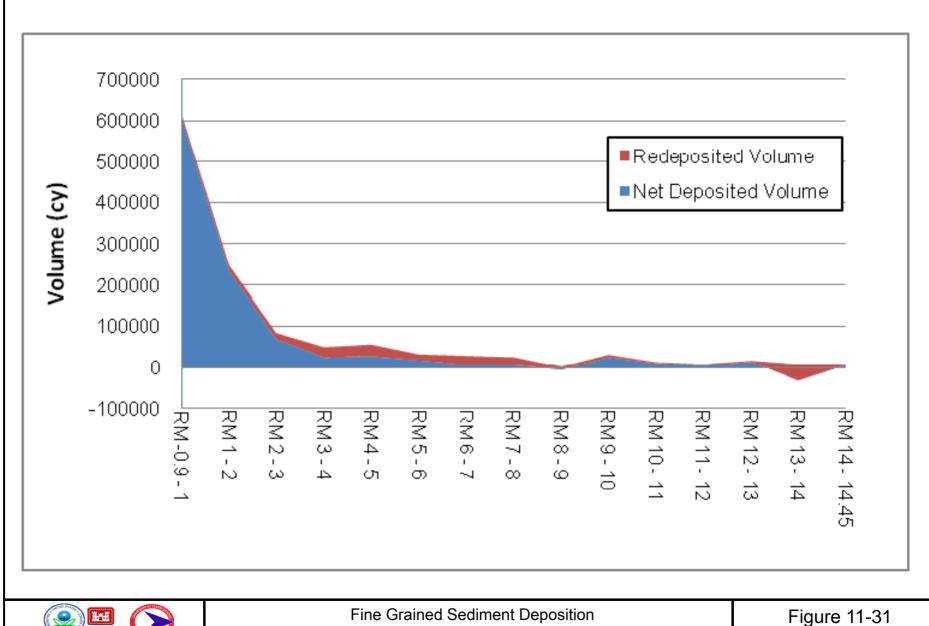


Fine Grained Sediment Volume Resuspended by River Mile Scenerio 1, 1989-2007

Figure 11-29

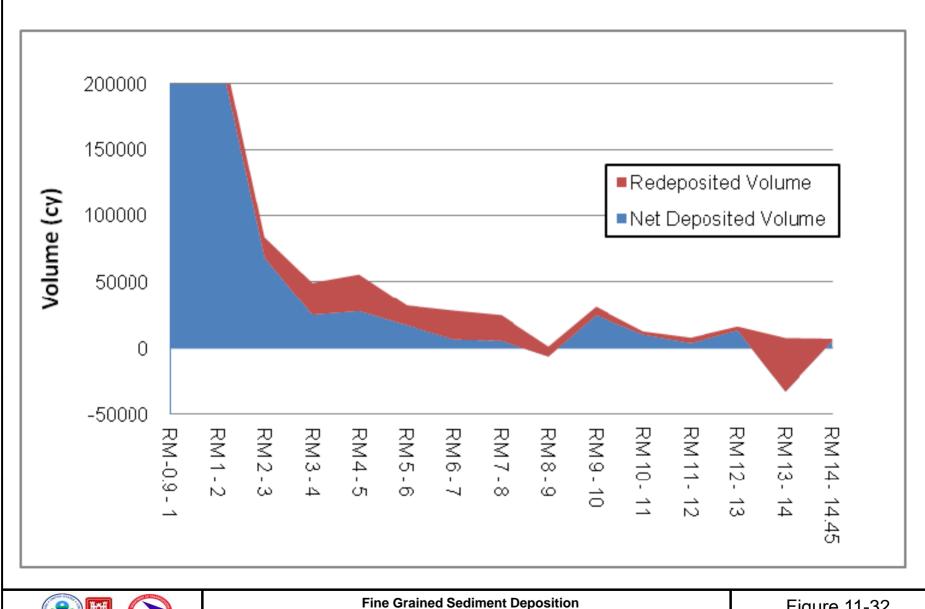
Lower Passaic River Restoration Project







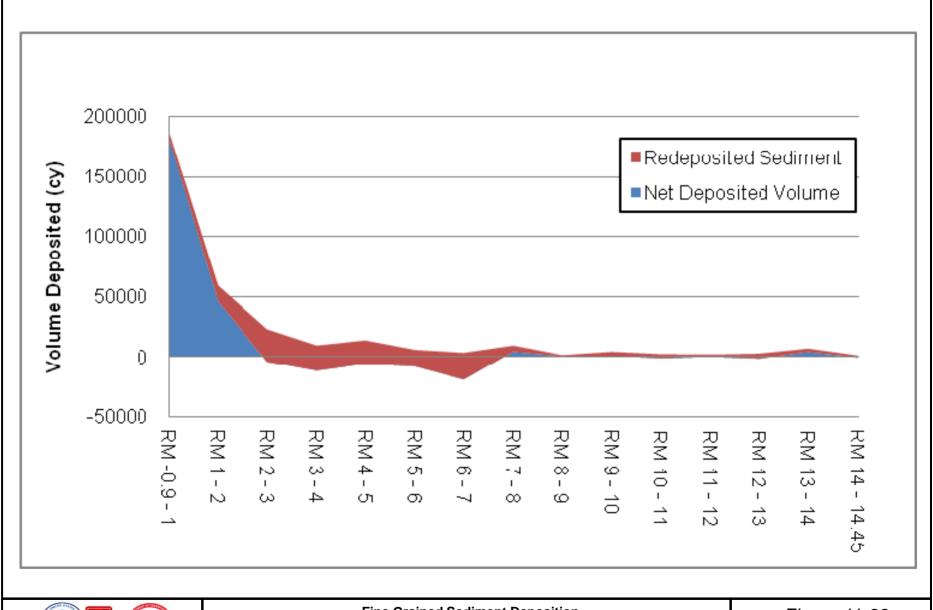
1989 to 2007





1989 to 2007- Expanded Scale

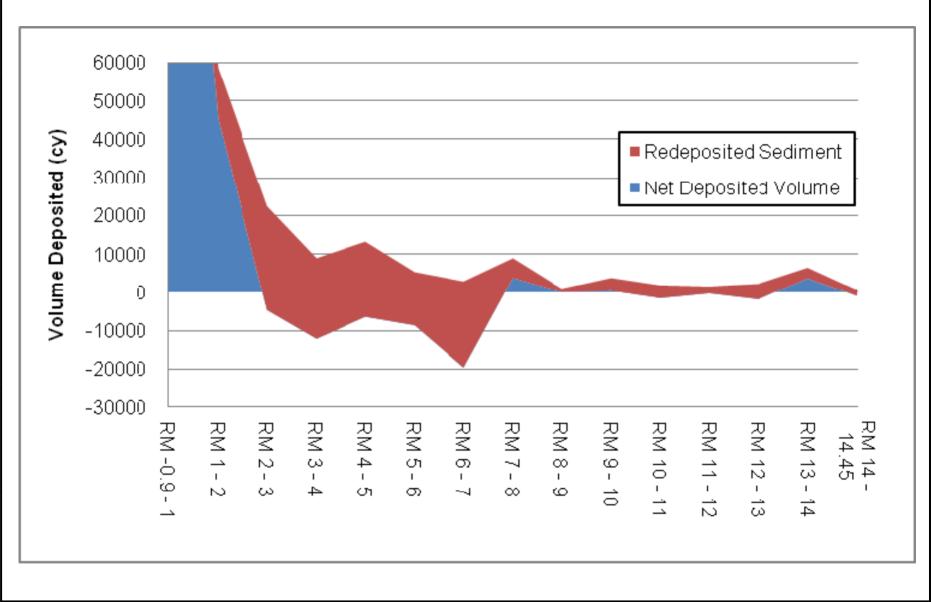
Figure 11-32





Fine Grained Sediment Deposition 2004 to 2007

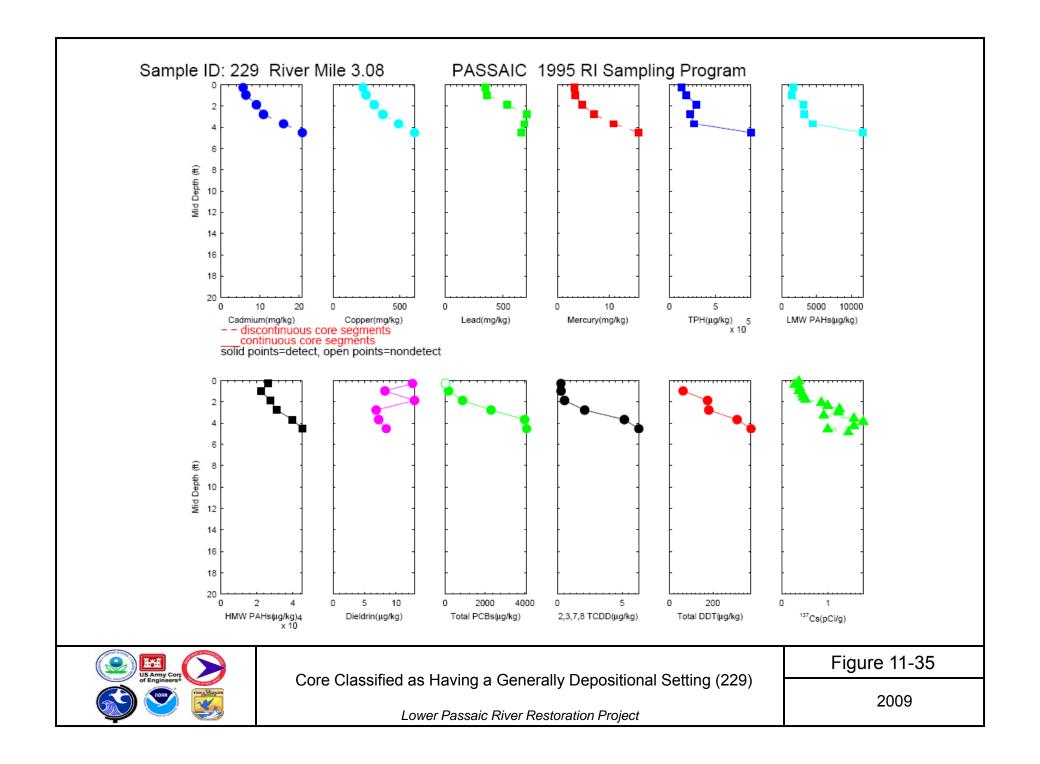
Figure 11-33

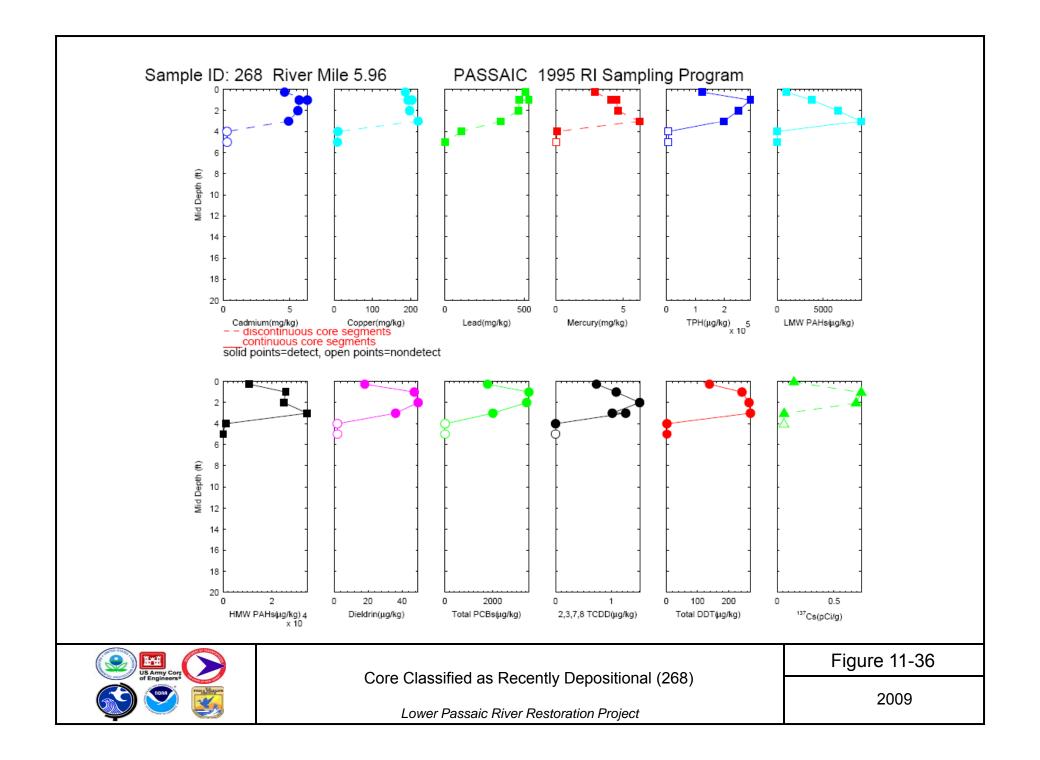


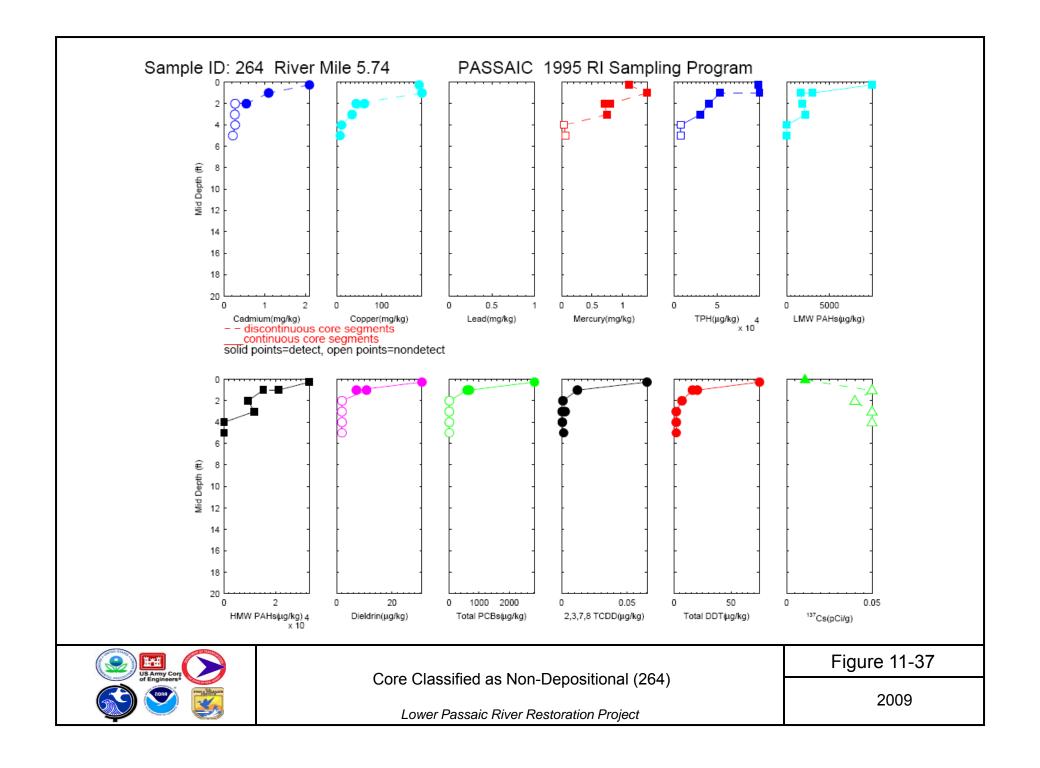


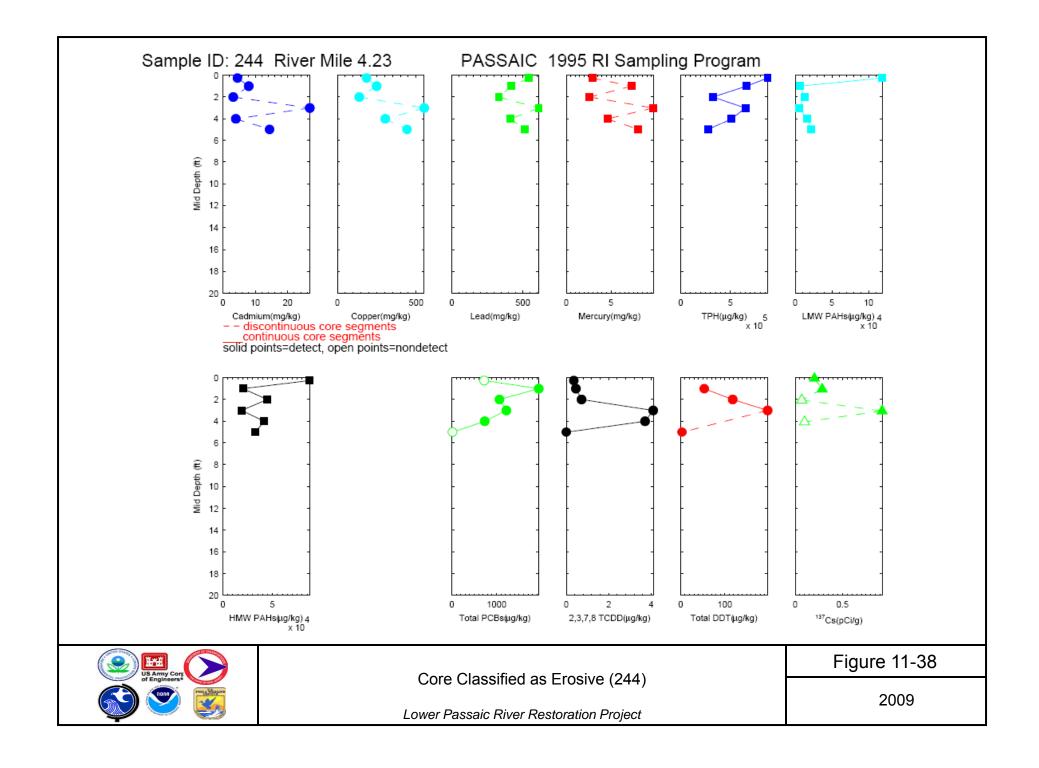
Fine Grained Sediment Deposition 2004 to 2007: Expanded Scale

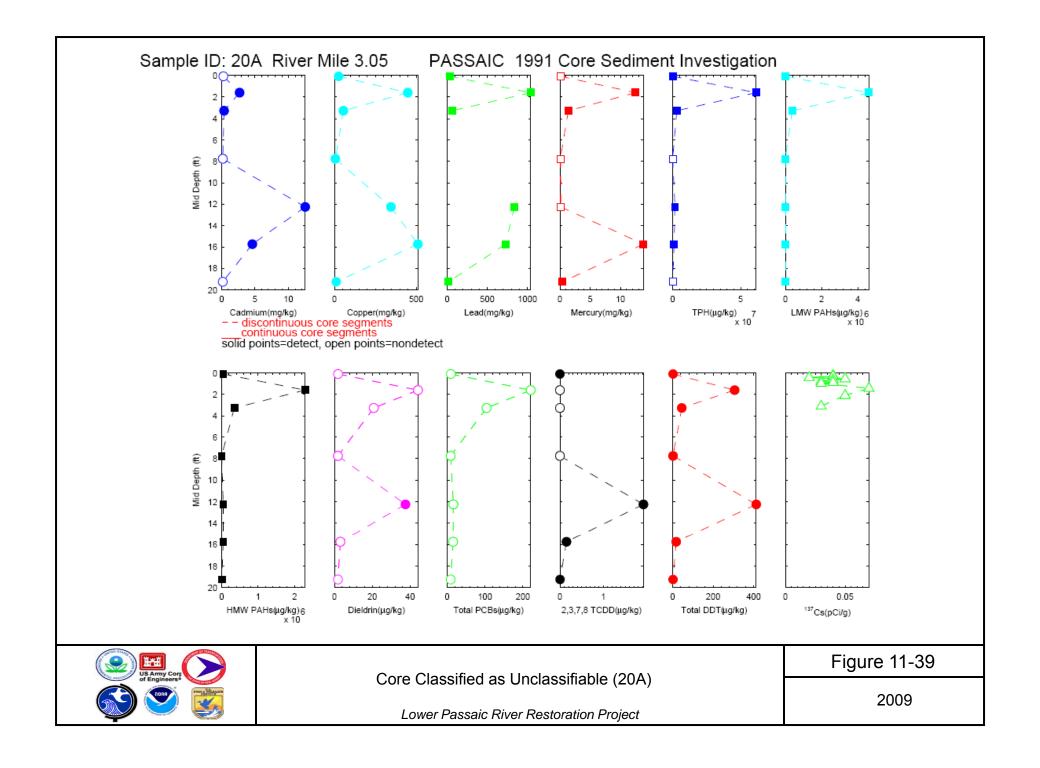
Figure 11-34

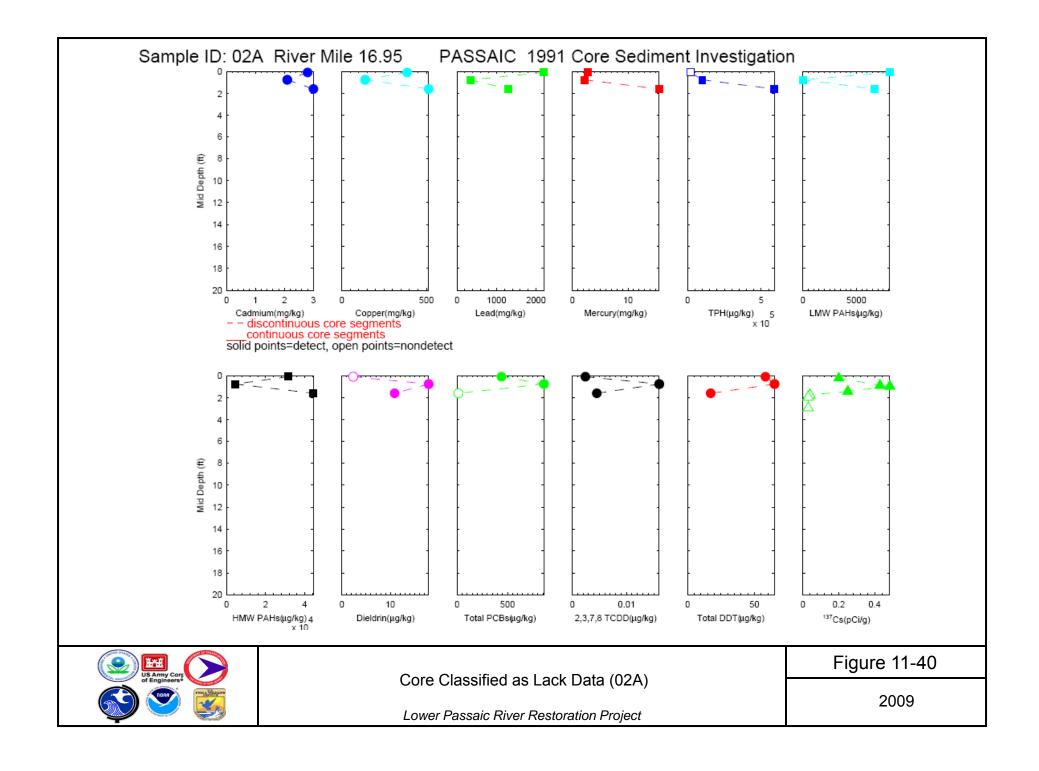


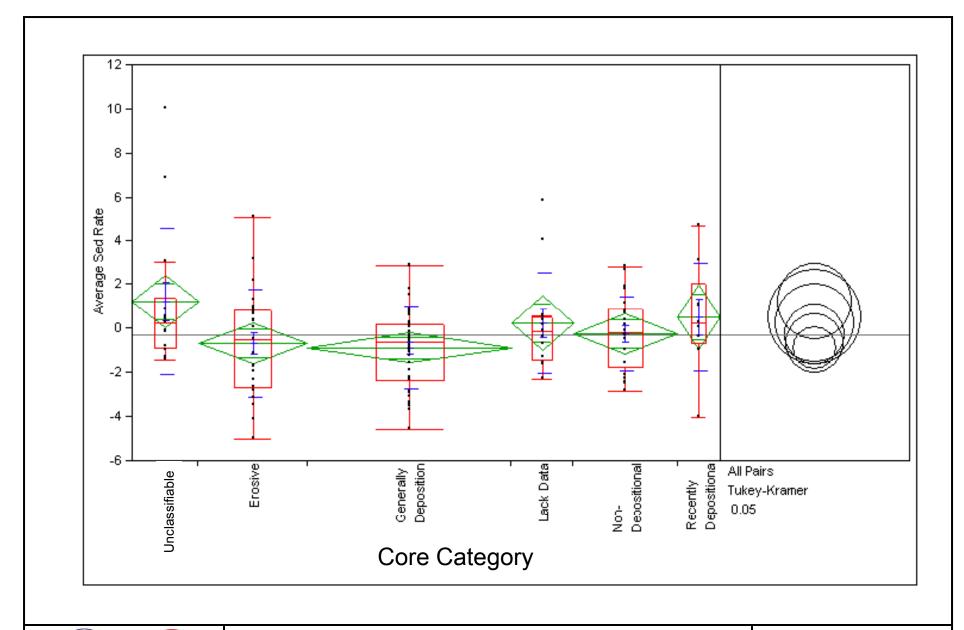










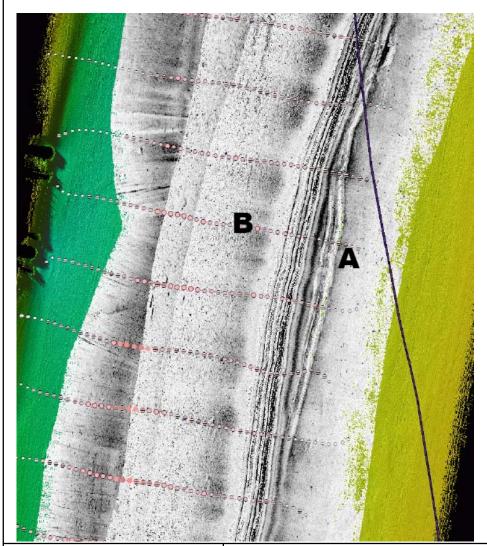




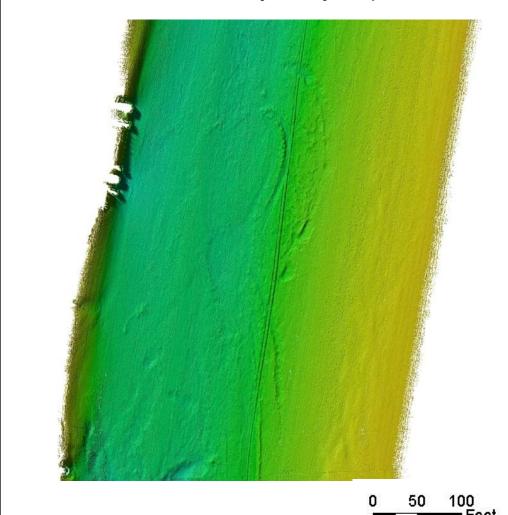
Comparison of Deposition Rates by Sediment Core Class Deposition Rate based on 1989 to 2007 Bathymetric Surveys

Lower Passaic River Restoration Project

Figure 11-41



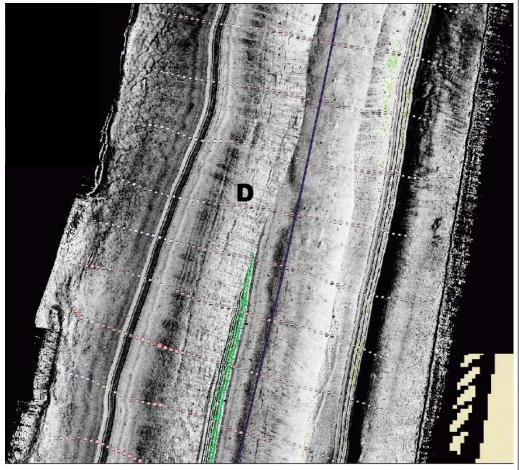


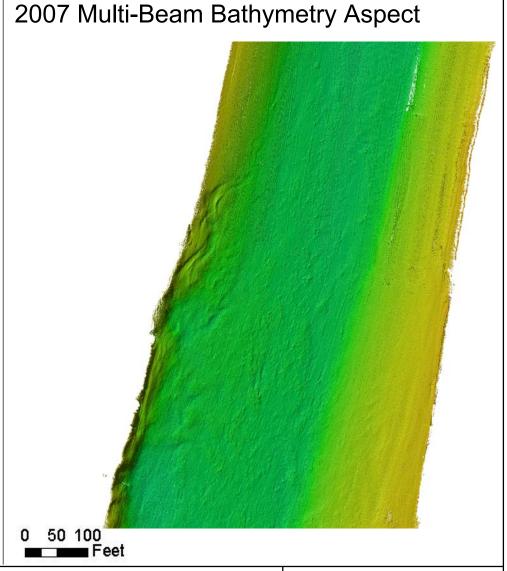




2005 Side Scan SONAR and Aspect of 2007 Multi-Beam Data at RM0.67

Figure 11-42



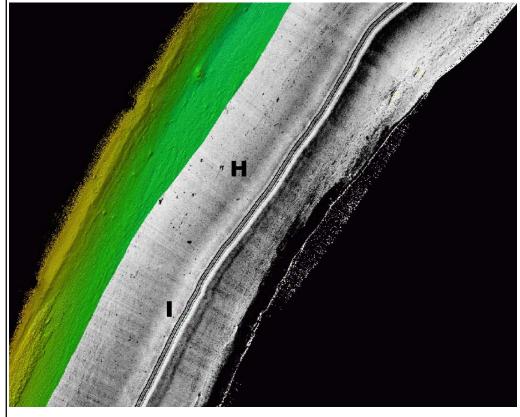


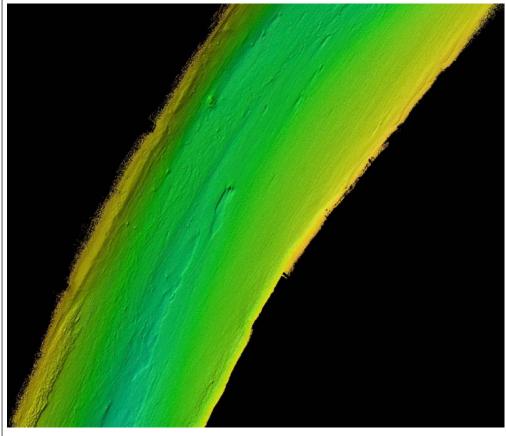


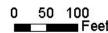
2005 Side Scan SONAR and Aspect of 2007 Multi-Beam Data at RM1.41

Figure 11-43

2007 Multi-Beam Bathymetry Aspect

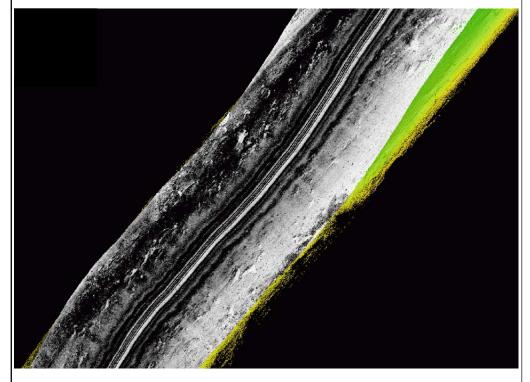


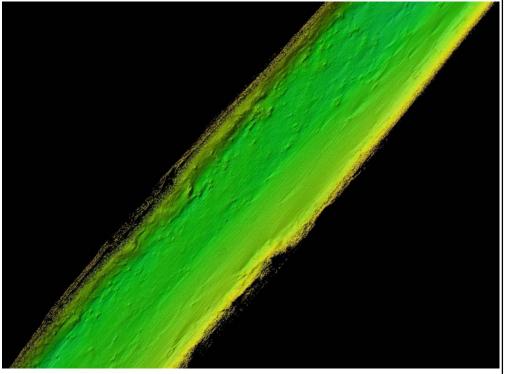






2007 Multi-Beam Bathymetry Aspect

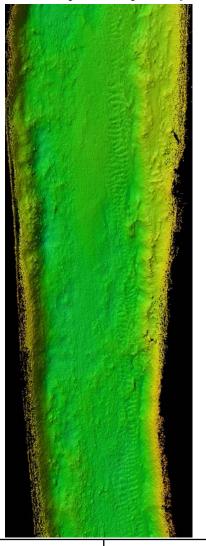




0 75 150 Feet









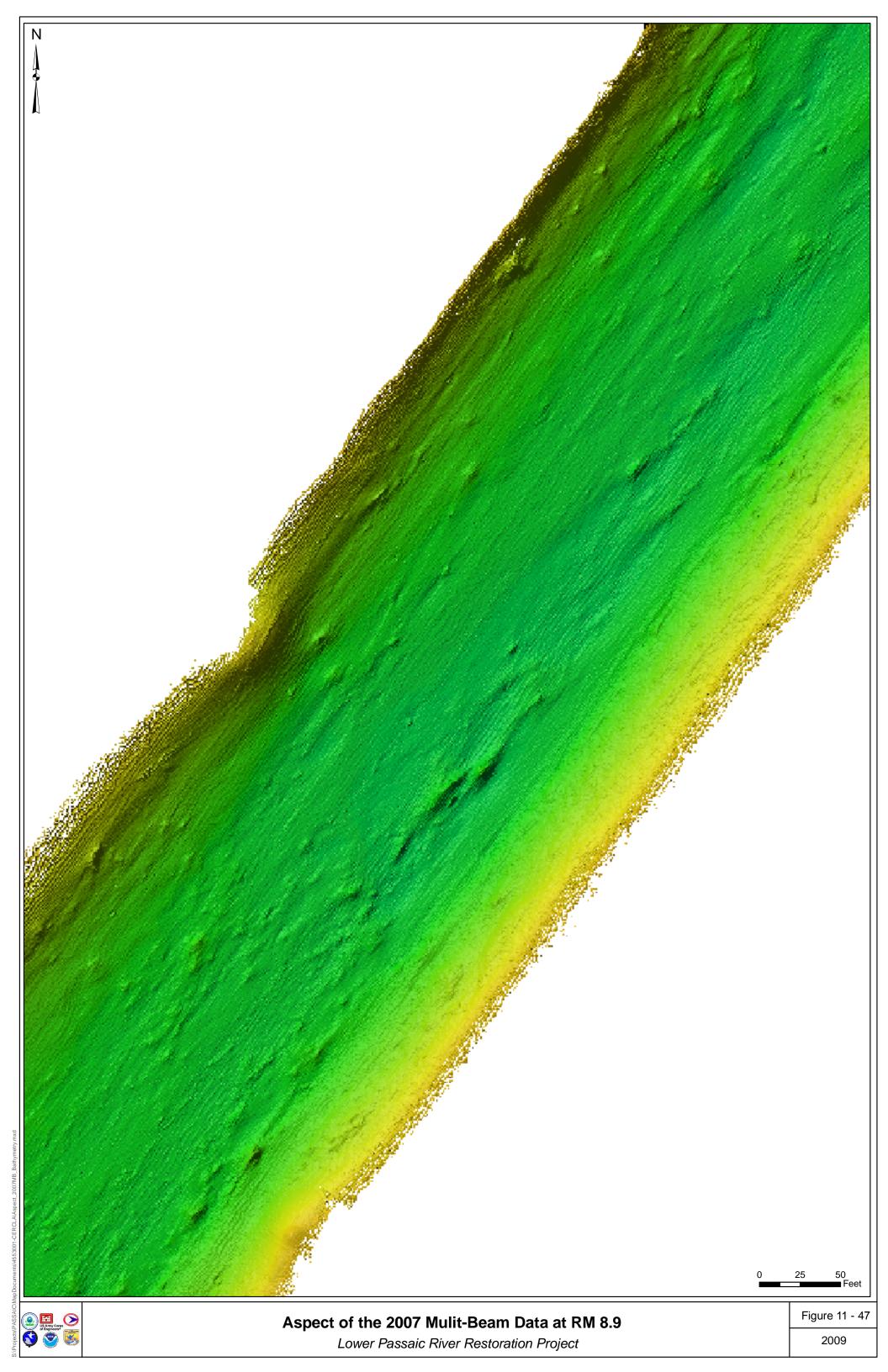
2005 Side Scan SONAR and Aspect of 2007 Multi-Beam Data at RM8.3

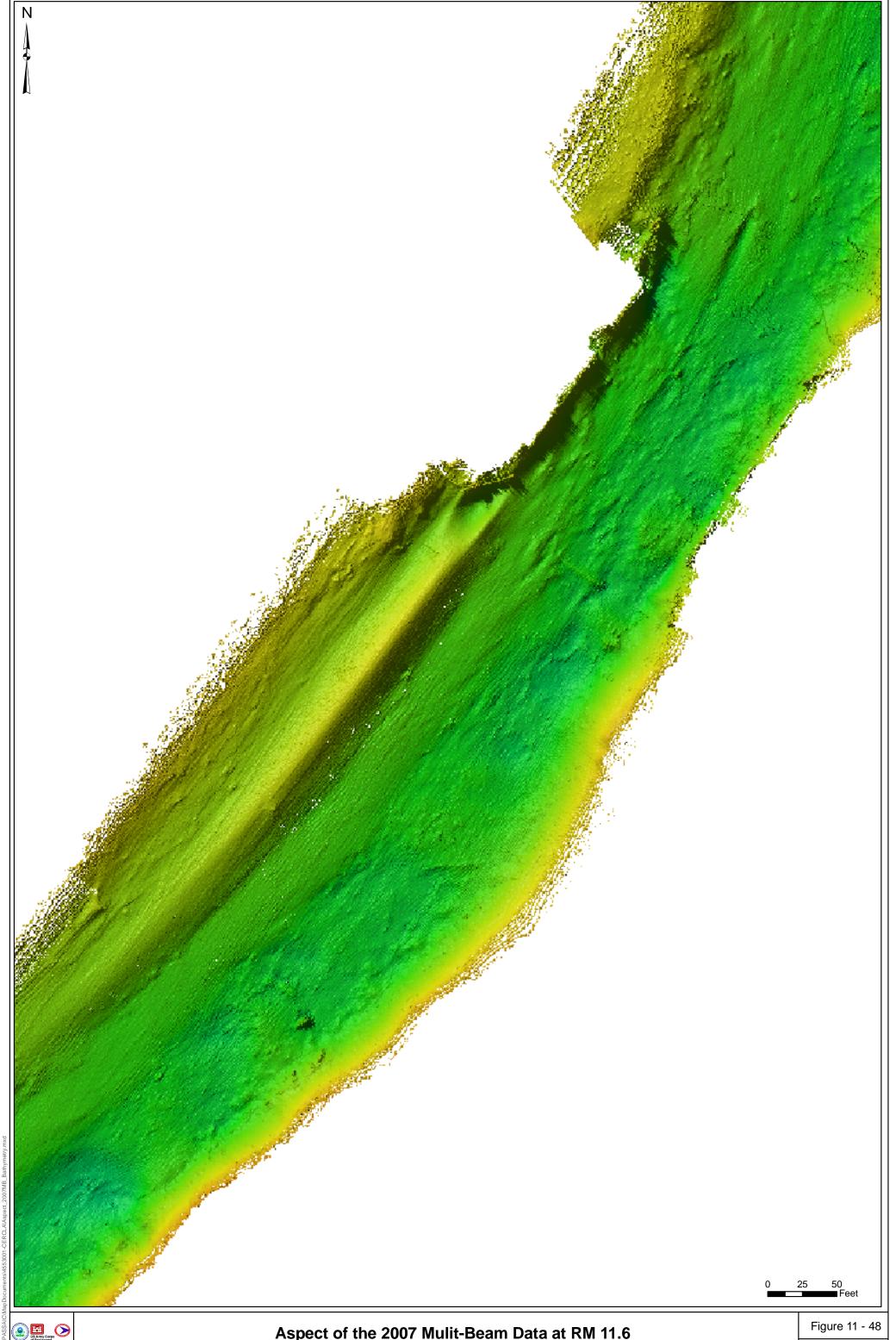
100 ■ Feet

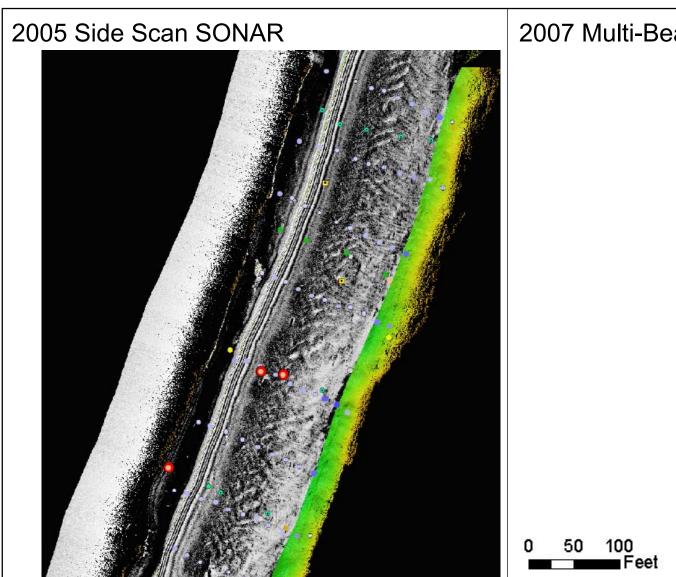
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Lower Passaic River Restoration Project

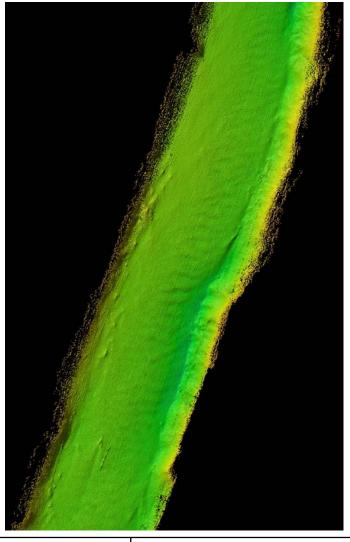
Figure 11-46













2005 Side Scan SONAR and Aspect of 2007 Multi-Beam Data at RM13.45

Lower Passaic River Restoration Project

Figure 11-49

